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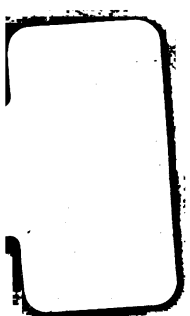

MINUTES

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MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 78 Tribune Building, Wednesday, January 7, 1885, at 3 o'clock P. M.

Commissioners present:

His Honor WILLIAM R. GRACE, *Mayor.*
Comptroller EDWARD V. LOEW.
Commissioner of Public Works ROLLIN M. SQUIRE.
Commissioners JAMES C. SPENCER, WILLIAM DOWD and C. C. BALDWIN.

Also Chief Engineer Church, Executive Engineer Fteley and Consulting Engineer Davis; also Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works.

The first business in order being the election of officers, the Mayor was unanimously elected President of the Commission for the ensuing year.

Upon the suggestion of Commissioner SPENCER, the election of a Vice-President was deferred for the present.

The minutes of the Stated Meeting of December 24th were read; and a correction, as indicated by Commissioner Spencer, having been made, they were then approved.

The Committee of Finance and Audit reported the examination and audit, on the 30th of December, 1884, of bills included in vouchers Nos. 462 to 465, and on January 6, 1885, of bills included in vouchers Nos. 466 to 471; and on motion of Commissioner DOWD, the said vouchers were approved and ordered certified to the Comptroller for payment.

The Committee also presented a report, dated December 30, 1884, in relation to the appointment of an Auditor, and recommending Grafton D. Rogers for the position.

On motion of the COMPTROLLER, the report was received and action thereon deferred until the next Stated Meeting.

Commissioner SPENCER offered the following resolution:

Resolved, That the Committee of Finance and Audit consider and report to this Commission for its consideration and adoption such by-laws, rules and regulations for its future governance and observance as said Committee shall deem suitable and sufficient.

Which resolution was adopted unanimously.

The Secretary reported that in compliance with the directions of the Commissioners of December 24th, one of each of the triplicate originals of the several contracts executed by the Commissioners on that day had been de-

livered to the contractors; one of each of the same had been delivered to the Comptroller for filing in the Finance Department; and one of each of the same placed on file in this office; and that a copy of each of said contracts had been delivered to the Commissioner of Public Works for filing in that Department.

In response to an inquiry of the Mayor, the Secretary stated the balance to the credit of the "Additional Water Fund"—as shown by the books of the Commissioners—to be $242,356.47, and that additional funds would shortly be required to meet the monthly payments to contractors.

On motion of Commissioner SPENCER, the matter of the amount of additional funds required was referred to the Comptroller, and the Secretary was directed to furnish him estimates of the payments to be made for work required by the contracts to be done within given times, and such further data as he may require for determining the probable amount of additional funds to be provided.

The Chief Engineer presented a report, dated December 31, 1885, in relation to the appointment and compensation of a superintendent of teams and of stablemen; which, on motion of Commissioner DOWD, was referred to the Committee of Finance and Audit for consideration and report.

The Chief Engineer also submitted a report, dated January 7, 1885, of the progress of the work done to that date, under the contracts awarded on the 24th of December last; which report was read and ordered placed upon file.

Mr. Fordham Morris was then heard, as counsel for Gulian L. Dashwood and on behalf of Samuel L. M. Barlow, in relation to the use of certain parcels of land over which a temporary easement right is required by the Commissioners, and the compensation to be made for such use, and presented written communications in relation thereto.

On motion of the MAYOR, the said communications were referred to the Committee of Finance and Audit for conference thereon with the Counsel to the Corporation, and report to the Commissioners.

The MAYOR presented a communication received by him from the Secretary of the Civil Service Advisory Board, dated January 6, 1885, in relation to the examinations of applicants for positions under the Aqueduct Commissioners; which communication was read, and a copy thereof directed to be made and filed by the Secretary.

After discussion of the matter to which the above communication related, the COMPTROLLER offered the following resolution:

Resolved, That the Counsel to the Corporation be and he is hereby requested to take the steps indicated in his communication to this Commission under date of November 18, 1884, or such other steps as to him may seem best to procure a prompt judicial decision of the question by the Court of last resort, whether the Civil Service Act of 1883, and the Acts of 1884 amendatory thereof, apply to the engineers and employees of the Aqueduct Commissioners.

This resolution was adopted unanimously.

Communications were received from Engineer of Construction Craven, thanking the Commissioners for their action in relation to his compensation (which was read and ordered placed on file). And from George Lucas, stenographer of the Commissioners, requesting an increase of salary (which was read, and referred to the Committee of Finance and Audit for consideration and report).

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 78 Tribune Building, Wednesday, January 14, 1885, at 3 o'clock P. M.

Commissioners present:

The Mayor.
The Comptroller.
Commissioner of Public Works.
Commissioners JAMES C. SPENCER, WILLIAM DOWD and C. C. BALDWIN.

Also Chief Engineer Church, Executive Engineer Fteley and Consulting Engineer Davis; also Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works.

The minutes of the Stated Meeting of January 7th were read and approved.

The Committee of Finance and Audit reported the examination and audit of bills included in vouchers Nos. 472 to 478, and upon motion of Commissioner DOWD, the said

vouchers were approved and ordered certified to the Comptroller for payment.

The Committee also reported upon the application of George Lucas for an increase of compensation, and recommended that his salary as stenographer, typewriter and engrossing clerk of the Commissioners be increased to the sum of sixteen hundred dollars per annum; which recommendation was, on motion of Commissioner DOWD, approved by the Commissioners, the said increase to commence at this date.

The Committee then submitted the following report and accompanying documents:

"AQUEDUCT COMMISSIONERS' OFFICE,

NEW YORK, January 13, 1885.

To the Aqueduct Commissioners:

Gentlemen,—The Committee of Finance and Audit, to which was referred for consideration and report the matter of the temporary easement rights upon lands of Gulian L. Dashwood and Samuel L. M. Barlow, in the Twenty-fourth Ward of the city, required by the Commissioners for the construction of the new Croton Aqueduct, and upon which matter Mr. Fordham Morris was heard by the Commissioners on the 7th inst., report as follows:

The Committee have conferred with Mr. Morris, as counsel of Mr. Dashwood, and with Mr. Peter T. Barlow, as counsel for Mr. Samuel L. M. Barlow, and have received from them the written propositions herewith submitted to the Commissioners for the adjustment of the respective claims of Messrs. Dashwood and Barlow.

The Committee have also consulted the Counsel to the Corporation in relation to these claims, and now recommend to the Commissioners—

1st. That the claim of Gulian L. Dashwood, for the sum of $5,954, be paid to him for all use of and damages to his property, upon condition that he gives to the Commissioners the full use and occupancy of the dwelling house and premises upon which said claim is based, and full acquittance for all damages inflicted upon his property by the use of the temporary easement in question and the construction of the said Aqueduct, the said dwelling house and premises to be occupied and used by the Commission during the construction of said Aqueduct, and to be surrendered upon its completion in as good order and condition as when taken possession of, reasonable wear and tear excepted.

Or that if Mr. Dashwood refuse to give the full use and occupancy of said dwelling house and premises, that the sum of four thousand dollars be paid him for the temporary easement rights required for the construction of said Aqueduct, and in full acquittance for all damages inflicted upon his property during and by reason of such construction.

2d. With regard to the claim of Mr. Barlow, it will be observed that his communication of January 7th related only to the use of the temporary easement right required upon his lands, but that his proposition now submitted includes compensation for the parcels taken in fee, for easements in perpetuity, for the alleged damages inflicted upon adjoining lands by such taking, and for counsel fees, taxes and costs. This portion of Mr. Barlow's claim not

having been referred to in his communication of the 7th, and therefore not submitted by the Board to this Committee, we have confined our consideration to the subject matter referred to us, and upon which we now recommend that Mr. Barlow be paid the sum of one thousand dollars in full compensation for the use and enjoyment of the temporary easement rights required upon his lands known as Parcels Nos. 42 and 44 of the property maps, during the construction of the new Aqueduct.

The amounts above named, if accepted by Messrs. Dashwood and Barlow, to be paid with interest from the date of the filing of the oath of the Commissioners of Appraisal, September 3, 1884.

(Signed) WILLIAM DOWD, JAMES C. SPENCER, C. C. BALDWIN, } *Committee of Finance and Audit.*"

A letter of this date, received from Mr. Samuel L. M. Barlow in relation to the above-named temporary easement right on his lands, was also read, and ordered filed with the other documents in relation to said matter.

On motion of Commissioner DOWD, the recommendations of the Committee of Finance and Audit, as set forth in the above report, were then unanimously approved by the Commissioners, and the Secretary was directed to communicate this action to Mr. Morris, of counsel for Mr. Dashwood, and Mr. P. T. Barlow, of counsel for Mr. Samuel L. M. Barlow, and also to inform them of the steps taken by the Counsel to the Corporation to procure a speedy determination of these matters in case of the non-acceptance of the above-named terms of adjustment.

And upon motion of Commissioner BALDWIN, the com-

munication of Mr. P. T. Barlow, dated January 12, 1885, was referred back to the Committee of Finance and Audit, with the request that they investigate, and as soon as practicable report to the Commissioners such an adjustment as to them seems equitable for the fee and perpetual easement rights taken upon the lands of Mr. S. L. M. Barlow for the construction of the new Aqueduct, and the damages inflicted upon his adjoining lands by such taking and use of said fee and easement rights.

The Committee of Finance and Audit next submitted a report, dated this day, upon "By-Laws and Rules of Order" for transacting the business of the Commission, and of which report copies were furnished to each of the Commissioners. On motion of Commissioner DOWD, the report was received, and laid over for consideration and future action by the Commissioners.

The COMPTROLLER presented a report, of this date, and estimate of the amount of additional funds required during the next six months for payments to the contractors and for other expenditures of the Commissioners, which report was read and ordered placed upon file.

The following resolution was then offered by the MAYOR:

Whereas, In the estimation of the Aqueduct Commissioners the sum of fifteen hundred thousand dollars will be required within the next six months to defray the necessary and lawful current expenditures of the said Commissioners, to make the monthly payments to become due to contractors on contracts now awarded for the construction of the Aqueduct between the Harlem River and Croton Dam, and for the pay-

ment of such right of way and land damage claims as may be determined within the aforesaid period; now, therefore, be it

Resolved, That the Comptroller of the City of New York be and he is hereby requested to raise the said sum of fifteen hundred thousand dollars upon bonds of the City of New York, in conformity with the requirements of Section 32, Chapter 490 of the Laws of 1883, of the State of New York, for the use and purposes of the Aqueduct Commissioners, as set forth in said chapter and section of said laws.

This resolution was adopted unanimously, and the Secretary directed to transmit a copy thereof to the Comptroller.

The COMMISSIONER OF PUBLIC WORKS submitted a "General plan of the location, plan and profile for the new Aqueduct, shafts, gate-houses, pipes, etc., from the east side of the Harlem River to the Reservoir in Central Park, to replace Exhibit P, of February, 1884"—accompanied by a report thereon, dated January 14, 1885.

On motion of Commissioner SPENCER, the above-named plan and report were received and referred to the Chief Engineer and Consulting Engineer, with directions to examine the same and to make report thereon at the earliest day practicable.

Chief Engineer Birdsall presented to the Commissioners, for their information, a tabulated statement of the rain fall and daily flow from the Crotom Dam for the years 1866 to 1884, inclusive, which was ordered placed on file with former tables relating to the same subject.

The Secretary presented a communication from the Counsel to the Corporation, dated January 14, 1885, requesting that an applicant be selected for examination by the Board of Municipal Civil Service Examiners to initiate the proceedings to procure a legal decision of questions relating thereto, which was read, and, on motion of Commissioner DOWD, the Secretary was directed to comply with the request of said Counsel, and to cause such application to be made.

A communication from Engineer of Construction Craven, dated January 12, 1885, in relation to the lands of Henry Welger, at the Pocantico River Cut, was then submitted by the Secretary; and on motion of Commissioner SPENCER, the matter was referred to the Committee of Finance and Audit for investigation and report.

Chief Engineer Church then presented communications, dated this day, as follows:

1st. A report recommending certain persons for appointment, and others for promotion, in the Engineer Corps of the Commission; which, on motion of Commissioner SPENCER, was referred to the Committee of Finance and Audit for consideration and report.

2d. A report of the work done so far by the contractors upon the new Aqueduct; which was ordered to be placed on file, and copies to be made and delivered to each of the Commissioners.

3d. A letter requesting—

(1.) The appointment of a purchasing agent, in order to relieve the engineers of that work.

(2.) Authority to obtain an apparatus from Fairbanks & Co. for testing certain materials to be used in constructing the new Aqueduct; the said apparatus to cost $50, with an additional charge of $2 for each test.

On motion of the MAYOR, so much of this communication as referred to a purchasing agent was referred to the Committee of Finance and Audit for report, and the Chief Engineer was authorized to procure the testing apparatus from Fairbanks & Co. upon the terms named in his letter.

The Chief Engineer then made a verbal statement in relation to a proposed arrangement for erecting poles for telephone wires, at joint expense of the Commissioners and the contractors, and on motion of Commissioner DOWD, the Chief Engineer was directed to ascertain and report the cost of erecting said poles, and the terms upon which telephone service could be obtained.

The Chief Engineer also stated that by a clerical error in his report of December 24, 1884, in relation to the appointment of Ira A. Shaler, as rodman, the compensation named was $70 instead of $75 per month, the latter being the rate at which others appointed to the same rank are paid, and asked that said error be corrected, and Mr. Shaler's pay fixed at $75 per month; and on motion of Commissioner BALDWIN, the Chief Engineer was authorized to make said correction.

The report of the Committee of Finance and Audit upon the appointment of an auditor, laid over from the last meeting, was then called up.

The application of Mr. John H. Timmerman for the

position of Auditor was presented, and his selection and appointment recommended by the COMPTROLLER.

The COMMISSIONER OF PUBLIC WORKS nominated for the position Mr. William E. Lucas, and Commissioner SPENCER nominated Mr. Bird W. Spencer, late treasurer of the New York, Lake Erie and Western Railway Company.

Whereupon, on motion of the MAYOR, the report of the Committee of Finance and Audit was referred back to them for consideration of the above-named application and nominations, and further report to the Commissioners.

The matter of the permanent form of organization for the Engineer Corps of the Commission was then called up by Commissioner SPENCER, and the Committee of Finance and Audit was requested to make report thereon at the next meeting.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 78 Tribune Building, Wednesday, January 21, 1885, at 3 o'clock P. M.

Commissioners present:

The Mayor.
The Comptroller.
Commissioner of Public Works.
Commissioners JAMES C. SPENCER, WILLIAM DOWD and C. C. BALDWIN.

Also Chief Engineer Church, Executive Engineer Fteley and Chief Engineer Birdsall, and Consulting Engineer Adams of the Department of Public Works.

The minutes of the Stated Meeting of the 14th inst. were read and approved.

The Committee of Finance and Audit reported the examination and audit of bills included in vouchers Nos. 479 to 487, which vouchers were, on motion of Commissioner DOWD, approved and ordered certified to the Comptroller for payment.

The Committee then presented their report, dated January 20th, upon matters heretofore referred to them, with recommendations as follows:

1st. In relation to the appointment of a purveyor or purchasing agent, to relieve the engineers of such work, and recommending the appointment of Mr. William S. Wilson, of Tarrytown, in accordance with the resolution of the Commissioners, on October 15, 1884, at a compensation of $60 per month.

Upon motion of Commissioner DOWD, this recommendation was approved by the Commissioners, and Mr. Wilson appointed Purveyor at the above-named compensation.

2d. In relation to the appointment of certain stablemen for the Engineer Department, as requested by the Chief Engineer in his communication of December 31, 1884, the Committee recommended the appointment of John Dynan as "Superintendent of Teams," at a compensation of $75 per month, and of George McCormick, as stableman, at $60 per month.

On motion of Commissioner SPENCER, these recommendations were approved by the Commissioners, and the above-named appointments were made.

3d. Upon application from the Engineer of Construction for a two-seated wagon for his use, the Committee recommend that the Chief Engineer be authorized to purchase a wagon from Abram Acker, of Sing Sing, similar to those ordered from the same party, at a cost of $195. This recommendation was approved by the Commissioners.

4th. In compliance with the resolution of the Commis-

sioners of the 20th of December, 1884, the Committee reported the examination and approval of the following leases of premises for the use of the Division Engineers in Westchester County:

1. From Thomas Maplesden, for the engineers of the First Division.

2. From Joseph B. Brown, for the engineers of the Third Division.

And the Committee recommended the acceptance of the proposition of Mr. Frederick J. Stone to build a suitable house by the 1st of May next for the use of the engineers of the Fourth Division, and to lease it to the Commissioners at the rate of $400 per annum, and meanwhile to furnish temporary quarters for said engineers at a sum of not exceeding $15 per month. This recommendation was approved by the Commissioners, and the Committee of Finance and Audit requested to make proper agreement therefor with Mr. Stone.

The Committee of Finance and Audit next presented a report, dated January 20, 1885, in relation to certain claims for rights of way for the new Aqueduct, as follows:

1st. Upon lands of Mr. Jay Gould, at Gould's Swamp, and recommended that said right of way be adjusted by agreement with Mr. Gould, under Section 23 of Chapter 490, Laws of 1883, for the payment to him for said land at the rate of $325 per acre, for the twenty acres, more or less, required for the construction of the said Aqueduct. This recommendation was approved by the Commissioners, and the Committee of Finance and Audit requested to procure such settlement with Mr. Gould.

2d. In relation to Parcels Nos. 549 and 550, at the Sawmill River crossing of the new Aqueduct, and owned by Thomas C. Edwards, the Committee also recommended a settlement by agreement with Mr. Edwards, under the above-named section of the act, for the payment to him of the sum of $3,000.

Mr. Edwards being present, was heard in relation to his claim, and asked permission to remove the buildings from said parcels, and for which he offered to allow $100 in a settlement of his claim. There being some question as to the power of the Commissioners to accept the proposition of Mr. Edwards, the matter was, on motion of the COMPTROLLER, referred back to the Committee of Finance and Audit for investigation and further report.

3d. In relation to Parcel No. 546, owned by Thomas A. Corlett, the Committee recommended settlement by similar agreement, for the payment to him of the sum of $500; which recommendation was approved by the Commissioners, and the Committee of Finance and Audit requested to procure such settlement with Mr. Corlett.

4th. The Committee reported that many other owners were asking for a settlement of their claims, by agreement with the Aqueduct Commissioners, and recommended that the Committee be empowered to investigate all claims presented by such owners; whereupon the following resolution was offered by the MAYOR, and adopted unanimously:

Whereas, Frequent requests are now being made to the Aqueduct Commissioners by owners of property upon the route of the new Aqueduct for the adjustment b

agreement between said owners and the said Commissioners of the fee and easement rights required for the construction of the said Aqueduct; and

Whereas, To some of the said owners it is of material consequenee to obtain the most speedy adjustment of their claims; now, therefore, be it

Resolved, That the Committee of Finance and Audit are hereby requested and authorized to investigate, in such manner as they may deem best, all claims so presented, and to report from time to time to the Commissioners for their approval such an adjustment thereof as said Committee deems equitable and just to the owners and to the City of New York.

The Committee called the attention of the Commissioners to the offer made by Mr. W. S. Dunn, in relation to rights of way through lands owned by himself and by Mr. H. B. Claflin, and recommended that steps be taken to obtain proper conveyances for said rights of way.

Commissioner DOWD offered the following resolution:

Whereas, At the public hearing held by the Commissioners on August 27, 1883, upon the plans for the construction of the new Aqueduct in the Twenty-fourth Ward of the city, Mr. William S. Dunn, on behalf of himself and Mr. Horace B. Claflin, urged a change in said plan by depressing the grade of the new Aqueduct at some point at or near Mosholu avenue, in the Twenty-fourth Ward of the city, to such depth as to avoid all disturbance of the surface of the property of himself and Mr. Claflin, and stated that if such depression was made the owners of the said lands would

convey to the City the right to construct said Aqueduct under said lands for a nominal consideration; and

Whereas, In the plan finally adopted, and upon which the said Aqueduct is to be constructed, the grade of said Aqueduct is so depressed; now, therefore, be it

Resolved, That the Committee of Finance and Audit are hereby requested and empowered to take the necessary steps, under advice of the Counsel to the Corporation, to procure proper conveyances from Messrs. Dunn and Claflin for the easement rights, in perpetuity, required for the construction of the new Aqueduct beneath said lands, as shown upon the property maps thereof.

This resolution was adopted unanimously.

The Committee of Finance and Audit next presented the following report:

"JANUARY 20, 1885.

To the Aqueduct Commissioners:

Gentlemen,—Upon the communication of the Chief Engineer, of January 14, 1885, in relation to further appointments in the Engineer Corps of the Commission, and naming persons for such appointment, the Committee recommend the appointment of the following persons to the positions, and at the compensation herein stated, viz.:

As Assistant Engineers, at $1,800 per annum.

James P. Carson.
Alfred A. Horne.
Royal Chapin.
Thomas D. Whistler, promoted from Transitman.

As Transitmen, at $1,500 per annum.

Charles K. Gracie.
William A. Brackenridge.
John M. Stewart, promoted from Leveler.
William S. Humbert.
Preston K. Yates.

As Levelers, at $1,200 per annum.

George H. Cunningham, promoted from Rodman.
Henry I. Dodge, promoted from Laborer.
Frank N. Speyer, promoted from Rodman.
David B. Lewis.
Harry R. Wheeler, promoted from Chainman.
Judd A. Lockwood, promoted from Laborer.
Alfred Renshaw, promoted from Laborer.

As Rodmen, at $75 per month.

Arthur B. Satterlee, promoted from Chainman.
Pobert E. Nicholas, promoted from Laborer.
Beverly R. Value.
Josiah H. Fitch, promoted from Laborer.
Isaac H. Baxter, promoted from Chainman.

As Chainmen or Flagmen, at $60 per month.

Andrew J. Lamb.
Robert A. McKim.
Langdon C. Easton.
George C. Marrin.
Henry N. Hamilton.
Joseph T. Underhill, promoted from Laborer.

Respectfully,

(Signed) WILLIAM DOWD,
JAMES C. SPENCER,
C. C. BALDWIN,
} *Committee.*"

The recommendations contained in the above report were approved by the Commisssioners, and on motion of the COMMISSIONER OF PUBLIC WORKS the persons therein named were by the unanimous vote of the Commissioners appointed to the position and at the compensation named for them respectively in said report, such compensation to commence from the date of their entrance upon the discharge of their duties under this appointment, and the Chief Engineer was directed to report such dates to the Commissioners.

The Secretary presented a communication from Mr. S. L. M. Barlow, dated January 16, 1885, in relation to the questions now under consideration respecting the fee and easement rights required upon his lands, which communication was read and referred to the Committee of Finance and Audit.

Mr. Fordham Morris, of counsel for Mr. Gulian L. Dashwood, presented a letter dated January 21, 1885, and containing a counter-proposition to the one made by the Commissioners on the 14th inst. for the adjustment of the claim of Mr. Dashwood for the use of temporary easement, and for damages caused thereby, and Mr. Morris was heard in relation thereto.

And on motion of the MAYOR, the matter was referred back to the Committee of Finance and Audit for further consideration and report.

The Chief Engineer presented a report of the work done to date by the contractors upon the new Aqueduct, which was ordered placed on file.

Commissioner SPENCER offered the following resolution, which was adopted:

Resolved, That the Mayor, Comptroller and Commissioner of Public Works are hereby appointed a Committee with power to negotiate for, and to lease for a term of years, suitable offices for the use of this Commission from and after the first day of May next.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 78 Tribune Building, Wednesday, January 28, 1885, at 3 o'clock P. M.

Commissioners present:

The Mayor.
The Comptroller.
Commissioner of Public Works.
Commissioners JAMES C. SPENCER, WILLIAM DOWD and C. C. BALDWIN.

Also Chief Engineer Church, Executive Engineer Fteley and Consulting Engineer Davis, and Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works.

The minutes of the Stated Meeting of the 21st inst. were read and approved.

The Committee of Finance and Audit reported the examination and audit of bills included in vouchers Nos. 488 to 490, and on motion of Commissioner DOWD, the said vouchers were approved by the Commissioners, and ordered certified to the Comptroller for payment.

The Committee of Finance and Audit then submitted the following reports, all dated January 27, 1885, which were read and ordered placed on file, and action taken thereon, as follows:

1st. Report setting forth certain errors in the report submitted by the Committee to the Commissioners, and acted on by them upon the 20th inst., in relation to the appointment of Henry I. Dodge, and the omission of the name of Frederick B. Rogers, and requesting that so far as the said action of the Commissioners related to the promotion of said Henry I. Dodge, it be rescinded; and recommending that the following promotions be made in the Engineer Corps of the Commissioners, viz.: Henry I. Dodge to be promoted from laborer to rodman, at a compensation of $75 per month; and that Frederick B. Rogers be promoted from rodman to leveler, at a compensation of $1,200 per annum.

On motion of Commissioner DOWD, the above-named action of the Commissioners on the 20th inst. was rescinded, and the recommendations of the above-named report were approved by the Commissioners; and the promotions of Mr. Dodge and Mr. Rogers were made, at the compensation named for them respectively, to commence with the date of their entrance upon the discharge of their duties under this promotion.

2d. A report in relation to—

(1.) Bedroom furniture required at the quarters of the several Division Engineers, and recommending the purchase of the same.

This recommendation was approved by the Commissioners, and the Chief Engineer was authorized to purchase

two single beds with the necessary bedding, and other chamber furniture for one room, for each of the six Division Engineer headquarters now established.

(2.) Recommending the acceptance of the offer of Mr. F. J. Stone, to erect a stable upon the same premises as the dwelling house to be erected by him for the use of the engineers of the Fourth Division, at an increase in the rent of $50 per annum.

This recommendation was approved by the Commissioners, and the Secretary directed to notify Mr. Stone of the acceptance of his offer.

(3.) Recommending the appointment of Edward B. Buckley as office boy in the office of the Commissioners, at a compensation of $5 per week.

This recommendation was also approved by the Commissioners and the appointment made, subject to the approval of the Board of Estimate and Apportionment.

3d. In relation to the selection of an auditor; returning the report of the Committee, of December 30, 1884, and requesting that the matter be considered and disposed of by the full Board.

This report was considered in executive council, and thereafter, on motion of the COMPTROLLER, Mr. John H. Timmerman, of New York City, was unanimously appointed Auditor in the office of the Commissioners, at a compensation of twenty-five hundred dollars ($2,500) per annum, subject to the approval of the Board of Estimate and Apportionment, pursuant to Section 41, Chapter 490, Laws of 1883.

4th. A report upon a settlement with Henry Welger, for the lands to be taken from him for the construction of

the new Aqueduct, at its lower crossing of the Pocantico River, and recommending the purchase of the whole of the property of said Welger at that place (being about $5\frac{3}{4}$ acres) for the sum of $3,500.

Upon motion of Commissioner DOWD, this recommendation was approved by the Commissioners, and it was

Resolved, That in the opinion of this Commission it is for the best interest of the City to purchase, by agreement with Henry Welger, under the provisions of Section 23, Chapter 490, Laws of 1883, the 5.721 acres now occupied by him at the Pocantico River crossing of the new Aqueduct in the Town of Mt. Pleasant, Westchester County, for the sum of $3,500; and that an agreement be made with him therefor, subject to the approval of the Board of Estimate and Apportionment of the City of New York, as provided in the aforesaid section of the act.

5th. A further report in relation to lands taken from Thomas C. Edwards at the Sawmill River crossing of the new Aqueduct, and adhering to the recommendation of the Committee in their report upon said matter of the 20th inst.; whereupon, on motion of Commissioner DOWD, it was

Resolved, That in the opinion of the Commissioners it is for the best interest of the City that the compensation to be made to Thomas C. Edwards for lands taken from him for the construction of the new Aqueduct, in the Town of Greenburg, and designated on the property maps of the route of said Aqueduct as Parcels Nos. 549 and 550, be fixed by agreement with

him for the payment of the sum of $3,000, said agreement to be made under Section 23, Chapter 490, Laws of 1883.

And the Secretary was directed to prepare agreements with the above-named parties, in accordance with the forms approved by the Counsel to the Corporation, May 12, 1884, and to transmit the same to the Board of Estimate and Apportionment for its approval.

6th. A report in relation to an adjustment of the claim of Gulian L. Dashwood, for compensation for the temporary easement rights required for the construction of the new Aqueduct, and for damages caused by such construction, and submitting the matter without further recommendation for the action of the Board.

Commissioner BALDWIN offered the following resolution:

Resolved, That in the opinion of this Commission an adjustment should be made with Gulian L. Dashwood, for the temporary easement rights on his lands in the Twenty-fourth Ward, required for the construction of the new Aqueduct, and for all damages caused by said construction, by payment to him of the sum of $4,340, upon the terms and conditions set forth in the form of agreement heretofore submitted to the Commissioners by Mr. Fordham Morris, of counsel for Mr. Dashwood, and approved "as to form" by the Counsel to the Corporation, and that said agreement be submitted to the Board of Estimate and Apportionment for its approval.

The resolution was adopted by a majority vote of the

Commissioners, Commissioner Dowd voting in the negative.

The Secretary presented a notice from the Comptroller of the issue of a warrant for vouchers not certified by the Aqueduct Commissioners, and appertainting to the work of the Commissioners of Appraisal for the City and County of New York, and amounting to $72, which notice was ordered placed on file, and proper entry thereof made in the books of the Commission.

The Secretary also presented an opinion from the Counsel to the Corporation, dated January 28, 1885, affirming the right of the Commissioners to remove buildings and materials from the lands taken in fee, and of which lands the contractors have been put in possession; which opinion was ordered placed upon file.

Chief Engineer Church presented communications, dated this day, as follows:

1st. Informing the Commissioners that measurements had been ordered made for the first monthly estimate of amounts to be paid to the contractors for work done to January 31st, which was read and ordered placed on file.

2d. Asking an increased appropriation of $1,000 for "Monumenting the line of the new Aqueduct," the former appropriations being exhausted.

On motion of Commissioner BALDWIN, this communication was ordered placed upon file, and the appropriation of $1,000 was made for the purpose above mentioned.

3d. In relation to the plans submitted by the Commissioner of Public Works, January 14, 1885, for the new Aqueduct south of the Harlem River, and asking authority to purchase instruments, and to select the necessary assistants for doing the work required for deciding upon said plans.

This communication was read and laid over temporarily; and subsequently taken up, and on motion of Commissioner SPENCER was referred to the Committee on Construction for consideration and report.

A communication was received, dated January 23, 1885, addressed to the Commissioners by O'Brien & Clark and Heman Clark, in relation to sinking additional shafts on Section 9 and Section B of the new Aqueduct, upon terms therein named.

The communication was read, and on motion of Commissioner SPENCER was referred to the Chief Engineer for investigation and report.

The Chief Engineer then submitted a letter from the same parties, dated January 26, 1885, in relation to amount of land at Shaft No. 23, and to the use of the roadway from said shaft to Sedgwick avenue, which communication was read, and subsequently referred to the Committee on Construction for investigation and report.

Chief Engineer Church made a verbal request for authority to assign Mr. Thomas Franklin to special duty, upon which he would hereafter make written report, and at a compensation of $125 per month.

On motion of Commissioner BALDWIN, authority was given to the Chief Engineer to make the assignment.

The Commissioners then took up the report of the Committee of Finance and Audit of January 14, 1885, upon "By-Laws and Rules of Order," laid over from the meeting of the 14th inst., and on motion of Commissioner SPENCER the following clause was added to Section 3, Article I. of said By-Laws.

"An Executive Session or Council of the Commissioners shall be held at any time, on the request of the President or of a majority of any committee, or of three of the Commissioners, but no determination or conclusion of the Commissioners at such council shall be valid or of binding effect until approved or adopted by a majority vote of the Commissioners in open session."

Commissioner SPENCER then offered the following resolution:

Resolved, That in lieu of Articles I. and II. of "Rules and Regulations," adopted by the Commissioners August 15, 1883, and of Article III. of the same, adopted March 5, 1884; Articles Nos. I., II., III. and IV., as set forth in the report of the Committee of Finance and Audit upon "By-Laws and Rules of Order," dated January 14, 1885—the Article No. III. being first amended by the addition of the clause hereinbefore named—together with the "Order of Business" contained in said report, be and the same are hereby adopted as "By-Laws and Rules of Order" for the transaction of the business of the Aqueduct Commissioners, the same to read as follows:

BY-LAWS AND RULES OF ORDER OF THE AQUEDUCT COMMISSIONERS.

ARTICLE I.

SECTION 1. Meetings of the Commissioners.

The meetings of the Commissioners shall be held at the office of the Aqueduct Commissioners, in the City of New York, unless otherwise ordered.

A majority of the Aqueduct Commissioners shall constitute a quorum for the transaction of business, and the affirmative vote of four of the Commissioners shall always be required for the adoption of any resolution or action by the Commission.

SECTION 2. Stated Meetings of the Commissioners.

Stated meetings of the Commissioners shall be held on Wednesday of each week, at 3 o'clock P. M., of which meetings no notice shall be necessary.

SECTION 3. Special meetings of the Aqueduct Commissioners may be held at any time and place on the assemblage of all of the Commissioners.

Special meetings may also be held on the written call and notice of the President, or, in his absence, the Vice-President, or a majority of said Commissioners. A copy of such call and notice must be personally served upon each Commissioner whose name is not signed thereto, or a copy of the same must be left at his residence, or place of business, forty-eight hours before the time named for said meeting in said call and notice.

ARTICLE II.

Officers and Employees of the Commissioners.

The officers and employees of the Aqueduct Commissioners shall be as follows:

SECTION 1. A President and Vice-President, who shall be elected from said Commissioners, and the official term of each shall be until the first Stated Meeting of the Commissioners in January of the year next succeeding the time of his election, and until his successor shall be elected.

SECTION 2. A Secretary, an Auditor, and as many clerks, messengers and other employees as the Commissioners may deem necessary. Their respective terms of office shall be during the will and pleasure of the said Commissioners. They shall be appointed and their salaries shall be fixed by said Commissioners, subject to the approval of the Board of Estimate and Apportionment of the City of New York.

SECTION 3. A Chief Engineer, Assistant Chief Engineer, Consulting Engineer or Engineers, and Engineer of Construction, and such Division, and Assistant, and other Engineers, Supervisors, Inspectors and employees for the Engineer Corps as the Aqueduct Commissioners may deem necessary. They shall be appointed, and their salaries shall be fixed by the said Commissioners, and their terms of office shall be during the will and pleasure of said Commissioners.

ARTICLE III.

Committees.

There shall be the following standing committees, each of three members, who shall be elected from said Commis-

sioners, and whose official terms shall be until the second Wednesday of January of the year next succeeding the time of their election.

SECTION 1. A Committee of Finance and Audit, who shall have the supervision of all vouchers, accounts, and books of account, and financial matters of the Commission; and who shall audit and report to the Board all expenditures by, and claims against the Commission, and who shall also examine, consider and report upon all other matters referred to it by the Commissioners, and shall report weekly to them its action and proceedings.

The Committee shall organize by the election of its Chairman and Vice-Chairman, and the adoption of all necessary rules for the transaction of business, and the Auditor shall be its Secretary.

SECTION 2. A Committee on Construction, that shall be an Executive Committee of supervision over the work and construction undertaken and constructed by the Commissioners, and the engineers, officers and employees of the Commission engaged therein, subject to the authority and direction of the Commissioners from time to time.

Said Committee shall organize by the appointment of a Chairman and Vice-Chairman, and the adoption of necessary rules for the transaction of its business, and the Secretary of the Commission shall be its Secretary. Said Committee shall examine, consider and report upon all other matters referred to it by the Commissioners, and shall report to them weekly its action and proceedings.

SECTION 3. An Executive Session or Council of the Commissioners shall be held at any time on the request of the President, or of a majority of any committee, or of three

of the Commissioners; but no determination or conclusion of the Commissioners at such council shall be valid or of binding effect until approved or adopted by a majority vote of the Commissioners in open session.

ARTICLE IV.

Duties of Officers.

SECTION 1. The President shall preside at all meetings of the Commissioners when present, and direct in the proceedings; and shall sign all contracts, leases or other papers, as the President of the Commissioners, when so authorized and directed by the Commissioners; and may call any special meeting of the Commissioners. Whenever the President shall sign any contract, lease, or other document or paper, in his official capacity, it shall be attested by the Secretary, and he shall perform such other duties as shall be authorized or assigned to him by the Commissioners, consistent with his position as the President of the Commission.

SECTION 2. The Vice-President shall act in case of the absence or inability of the President, with the same power and effect as the President.

SECTION 3. The Secretary shall keep the record of the proceedings of all stated and special meetings of the Commissioners, and shall have the care and custody of all maps, plans, contracts, books, vouchers, reports to the Commissioners, and other documents and papers or copies thereof on file in the office of the Commission, and of the furniture and other property of the Commission in use in the office of the Commissioners, excepting such as are necessarily in the care and custody of the Chief Engineer

or members of the Engineer Corps. The Secretary shall also act as the Secretary of the Committee on Construction, and have the charge and custody of its records and proceedings, and its reports to the Commission; and shall perform such other duties as shall from time to time be imposed upon him by the said Committee or the Commissioners.

SECTION 4. The Auditor shall have, under the Secretary, the care and custody of all the accounts, and books of account, vouchers, documents and papers pertaining to the financial affairs of the Commissioners, and shall correctly keep the books of account of the Commissioners, and shall carefully examine and consider all accounts, vouchers and claims for or against the Commissioners, and shall certify and report the same to the Committee of Finance and Audit for its consideration, approval and report to the Commissioners; and shall act as Secretary to said Committee, and shall perform all other duties imposed upon him by said Committee or the Commissioners.

ORDER OF BUSINESS AT STATED MEETINGS OF THE AQUEDUCT COMMISSIONERS.

FIRST.—Reading the Minutes.

SECOND.—1. Reports of Committee of Finance and Audit.
2. Reports of Committee on Construction.
3. Reports of Special Committees.
4. Communications from the Commissioner of Public Works.

THIRD.—Reports from the Secretary, Chief Engineer and Auditor.

FOURTH.—Communications to the Board shall be received and considered.

FIFTH.—Unfinished Business.

SIXTH.—New Business.

The resolution was adopted by the affirmative vote of the Mayor, Comptroller, Commissioner of Public Works, and Commissioners Spencer, Dowd and Baldwin.

On motion of Commissioner SPENCER, Commissioner Dowd was then elected Vice-President of the Commissioners for the ensuing year.

On motion of Commissioner SPENCER, the following Commissioners were elected the "Committee of Finance and Audit," viz.: Commissioner William Dowd, Comptroller E. V. Loew and Commissioner C. C. Baldwin.

On motion of the COMPTROLLER, the following Commissioners were elected the "Committee on Construction," viz.: Commissioners James C. Spencer and C. C. Baldwin, and Commissioner of Public Works Rollin M. Squire.

Commissioner SPENCER then offered the following resolution, which was unanimously adopted:

Resolved, That Article V. of the By-Laws, reported by the Committee of Finance and Audit on the 14th day of January, 1885, be and the same is hereby referred to the Committee on Construction for further consideration, and report to the Commissioners.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 78 Tribune Building, Wednesday, February 4, 1885, at 3 o'clock P. M.

Commissioners present:

The Mayor.
Commissioner of Public Works.
Commissioners JAMES C. SPENCER, WILLIAM DOWD and C. C. BALDWIN.

Also Chief Engineer Church, Executive Engineer Fteley and Consulting Engineer Davis; also Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works.

The minutes of the Stated Meeting of January 28th were read and approved.

The Committee of Finance and Audit reported the examination and audit of bills included in vouchers Nos. 495 to 499, and on motion of Commissioner DOWD, the said vouchers were approved by the Commissioners and ordered certified to the Comptroller for payment.

The Secretary presented the bond of William S. Wilson, as Purveyor of the Commissioners, with John H. Hall as surety, for the sum of $2,000, as required by the resolution of the Commissioners of October 14, 1884; which bond was approved and accepted by the Commissioners, and the President of the Commission requested to endorse such acceptance thereon, and the Secretary directed to place the bond on file in this office.

The Secretary next presented notices of the approval of the Board of Estimate and Apportionment, at their meeting on the 2d inst., of the appointment of John H. Timmerman as Auditor, William S. Wilson as Purveyor, and Edward B. Buckley as office boy of the Commissioners, which notices were ordered placed upon file.

The Secretary then presented a letter from Benjamin D. See, dated January 27, 1885, in relation to lands taken from him at Shaft No. 16, in the Town of Yonkers, and asking that an adjustment be made with him by agreement with the Commissioners.

On motion of Commissioner SPENCER, the matter was referred to the Committee of Finance and Audit.

The Chief Engineer presented a report, dated February 4, 1885, upon the request of O'Brien & Clark and Heman Clark in their letter to the Commissioners, dated January 23, 1885, for additional shafts on Section 9 and Section B; which report was read, and, on motion of Commissioner BALDWIN, the report and communication of the contractors were referred to the Committee on Construction, for conference with the Counsel to the Corporation in relation to

legal questions involved, and for full investigation of the matter and report to the Commissioners hereafter.

The Chief Engineer next presented a communication, dated February 4, 1885, in relation to the assignment to special duty in the Engineer Department of Mr. Thomas Franklin, and recommending that the duties of Mr. Franklin be extended to making examinations of a general character, relating to additional storage and other matters at the Croton River; and that in consequence of such extended service, his compensation be fixed at $2,400 per annum.

Commissioner SPENCER offered the following resolution:

Resolved, That the recommendation of the Chief Engineer be and the same is hereby approved, and the Chief Engineer authorized to assign Mr. Thomas Franklin to the special duty above named, at a compensation of $2,400 per annum, to date from his entrance upon the discharge of his duties under this assignment.

This resolution was adopted by a majority vote of the Commissioners, Commissioner Dowd voting in the negative.

The COMMISSIONER OF PUBLIC WORKS presented a letter from Frederick W. Frost, dated February 2, 1885, in relation to his application for a position in the Engineer Corps of the Commissioners; which letter was read and ordered filed with said application.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 78 Tribune Building, Wednesday, February 11, 1885, at 3 o'clock P. M.

Commissioners present:

The Mayor.
The Comptroller.
Commissioner of Public Works.
Commissioners JAMES C. SPENCER, WILLIAM DOWD and C. C. BALDWIN.

Also Chief Engineer Church, Assistant Chief Engineer Fteley and Consulting Engineer Davis; also Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works.

The minutes of the Stated Meeting of the 4th inst. were read and approved.

The Committee of Finance and Audit reported the examination and audit of bills included in vouchers Nos. 500 to 506, and on motion of Commissioner DOWD, the said vouchers were approved and ordered certified to the Comptroller for payment.

The Committee on Construction submitted a report, dated February 9, 1885, which was laid over for consideration in Executive Council, and thereafter taken up and acted upon in sections, as follows:

1st. The Committee recommended that authority be given to employ certain laborers, and to purchase implements and tools at a cost of not over $200, for making soundings in Manhattan Valley and in the Central Park, as requested in a communication addressed by the Chief Engineer to the said Committee and dated February 9, 1885.

On motion of Commissioner DOWD, it was

Resolved, That authority be given to the Chief Engineer, in conjunction with the Committee on Construction, to employ sixteen laborers and three overseers, for making soundings by trial pits and sounding rods in the streets south of One Hundred and Thirty-fifth street and in Central Park, for the purposes described in the above-named report of the Chief Engineer, and to purchase the necessary implements and tools therefor at a cost not exceeding $200.

2d. In relation to the appointment of assistants to the Division Engineer on Division No. 7 (south of the Harlem River), as requested by the Chief Engineer in his report of January 28, 1885, referred to this Committee, and in his supplementary report to the Committee, dated February 9, 1885, the Committee recommended the appointment of the following persons to the positions, and at the compensation named for them respectively, said compensation to commence with the date of entrance upon the discharge of their duties under this appointment, viz.:

William R. Warfield, as Assistant Engineer, at the rate of $1,800 per annum.

Alexander C. Chenoweth, as Transitman, at the rate of $1,500 per annum.

Henry N. Hamilton, promoted from Chainman to Leveler, at the rate of $1,200 per annum.

Herbert C. Alden, as Rodman, at the rate of $75 per month.

Charles G. Douw, as Chainman, at the rate of $60 per month.

And the Committee also recommended the appointment of

Frederick E. Waldron, as Chainman (in place of Henry N. Hamilton, promoted), at the rate of $60 per month.

On motion of Commissioner BALDWIN, these recommendations were approved, and the above-named appointments made by the Commissioners.

3d. The Committee recommended the purchase of the following instruments and tools for the use of the engineers of the Seventh Division, at a cost not exceeding the following sum, viz.:

One transit, at	$240
One level, at	155
One leveling rod, at	16
Lining rods and minor tools, at	50
Total	$461

4th. The Committee recommended renting a floor in a building in One Hundred and Twenty-fifth street near

Eighth avenue, for headquarters of the engineers of the Seventh Division, for the term of three years from the 1st of May next, at a rental of not to exceed $480 per annum, and an appropriation of $300 for proper heating apparatus, furniture, stationery and fittings for said headquarters.

On motion of Commissioner SPENCER, these recommendations were also approved by the Commissioners, and the Secretary was directed to prepare lease of said floor, to be approved by the Committee of Finance and Audit, and executed by the President of the Commission.

The Committee on Construction then reported progress in the matter of the application of O'Brien & Clark and Heman Clark for additional shafts; and conference was held in relation thereto with the Counsel to the Corporation, after which the matter was laid over for further report and future action.

The Secretary presented communications from the Comptroller, giving notice of the issuance of warrants for payments of vouchers not certified by the Commissioners, and appertaining to the work of the Commissioners of Appraisal, as follows:

January 31, 1885, for $249.73;
February 7, 1885, for $800;

which communications were read and ordered placed on file, and proper entry thereof made upon the books of this Commission.

The Secretary asked instructions as to the future certification of the monthly statements and abstracts of expenditures and liabilities required by Section 39 of the act;

and the Commissioners directed that such statements and abstracts be hereafter examined and approved by the Auditor and certified by the Secretary.

Chief Engineer Church presented a communication, dated February 11, 1885, informing the Commissioners of the declination of William A. Brackenridge, appointed Transitman January 21, 1885, and recommending the appointment of Judd A. Lockwood in the place of Mr. Brackenridge.

On motion of Commissioner BALDWIN, this communication was referred to the Committee on Construction for report.

The Commissioners then received a delegation from the Central Labor Union of New York, who delivered a written communication in relation to the object and scope of their association, and Messrs. William McCabe, John T. Keeny and others of the delegation were heard with regard to the employment of skilled labor upon the new Aqueduct.

The Commissioners held an Executive Council for conference upon matters connected with right of way lands, and then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 78 Tribune Building, Wednesday, February 18, 1885, at 3 o'clock P. M.

Commissioners present:

The Mayor.
The Comptroller.
Commissioner of Public Works.
Commissioners JAMES C. SPENCER, WILLIAM DOWD and C. C. BALDWIN.

Also Chief Engineer Church, Assistant Chief Engineer Fteley, Consulting Engineer Davis, and Chief Engineer Birdsall of the Department of Public Works.

The minutes of the Stated Meeting of February 12, 1885, were read, some verbal amendments made, and then approved.

The Committee of Finance and Audit reported the examination and audit of bills included in vouchers Nos. 507 to 518, which vouchers were, on motion of Commissioner DOWD, approved and ordered certified to the Comptroller for payment.

The Committee next reported the approval of the lease of a floor at No. 269 West One Hundred and Twenty-fifth street from David W. Bishop at $420 per annum, for three years from May 1st next, for the use of the engineers of the Seventh Division.

The Committee next recommended that authority be given the Chief Engineer to have thirty copies of the sets of plans of the new Aqueduct backed with cloth, at a cost of $7 each set, and to have 900 feet of profile paper similarly backed, at a cost of $375, for making and preserving records of the progress of the work on said Aqueduct.

On motion of Commissioner DOWD, the above recommendations were approved by the Commissioners, and the Chief Engineer was authorized to have the backing done.

The Committee on Construction made report, dated February 16, 1885, which was acted upon by sections, as follows:

1st. The Committee reported their approval of the recommendation of the Chief Engineer of February 11, 1885, that Judd A. Lockwood be promoted from Leveler to Transitman in place of William A. Brackenridge, declined, at a compensation of $1,500 per annum.

On motion of Commissioner BALDWIN, this recommendation was approved by the Commissioners, and Judd A. Lockwood was promoted to the position of Transitman, his compensation to be at the rate of $1,500 per annum, and to commence with his entrance upon the discharge of his duties under this promotion.

2d. Upon further investigation of the ownership of, and easement rights over, the lands in the Twenty-fourth

Ward of the city, and known as the old Archer Lane, the use of which by the contractors for reaching Shaft 23 has been objected to, the Committee recommended that they be authorized and empowered to negotiate with the parties in interest in said lane, and to make proper terms with them for its use, upon condition that the roadway and bridge be put and kept in good repair, free from encumbrance to travel over it, and be left in good order and condition upon the completion of the Aqueduct.

Upon motion of Commissioner SPENCER, this recommendation was approved by the Commissioners, and the Committee on Construction was authorized and empowered to make the necessary agreements with the parties in interest in said "Archer Lane."

3d. The Committee submitted a communication addressed to them by the Chief Engineer, dated February 16, 1885, in relation to modifications in the tunnel and its inclines on Sections A and B in the Twenty-fourth Ward, which modifications are asked for by the contractor, and the Committee recommended that, in accordance with Clause 57 of the Specifications and Contracts for Sections A and B of the New Aqueduct, the Chief Engineer be authorized and directed to increase the level spaces between the foot of Shaft No. 24 and the foot of the incline on Section A, and between the foot of Shaft No. 20 and the foot of the incline on Section B one hundred feet each, in order to facilitate the construction work at those places.

Upon motion of the COMPTROLLER, this matter was laid over and the Committee on Construction was requested to confer with the Counsel to the Corporation in relation to the proposed changes, and to prepare proper resolution

for the action of the Commissioners at their next regular meeting.

4th. The Committee recommended that the Chief Engineer be directed to obtain authority from the Departments of Public Works and of Public Parks for the use of the public streets and of the Central Park, for making the soundings provided for by the Commissioners at their last meeting.

On motion of Commissioner DOWD, this recommendation was approved by the Commissioners, and the Chief Engineer directed to obtain the required authority from the Departments of Public Works and of Public Parks.

The Secretary presented the following communications:

1st. From the Comptroller, dated February 14, 1885, giving notice of the issue of a warrant for vouchers not certified by the Commissioners, and appertaining to the work of the Commissioners of Appraisal for the City and County of New York, for the sum of $177, which communication was read and ordered placed upon file, and proper entry thereof made upon the books of this Commission.

2d. Application from Richard Matthews for the position of Inspector, which was ordered placed upon file and recorded in the list of applicants for similar positions.

The Commissioners then held an Executive Council, and thereafter the Committee composed of the Mayor, the Comptroller and the Commissioner of Public Works, appointed January 21, 1885, to negotiate for suitable offices for the Commissioners, and to lease the same for three

years from the 1st of May next, made a verbal report of the terms upon which they could obtain the necessary offices in the Stewart Building on Broadway.

Commissioner SPENCER then offered the following preamble and resolution, which were unanimously adopted, viz.:

Whereas, The present offices of the Aqueduct Commissioners are not only insufficient for the proper transaction of the present business of the Commission, but are entirely inadequate for its rapidly increasing work; therefore be it

Resolved, That the said Commissioners lease Rooms Nos. 207, 209, 211, 212, 213, 214, 215 and 216, upon the fifth floor of the Stewart Building, corner of Broadway and Chambers street, for the term of three years from the first of May next, at a rental of eighty-five hundred dollars ($8,500) per annum, said leasing being subject to the approval of the Board of Estimate and Apportionment of the City of New York, as provided by Section 41, Chapter 490 of the Laws of 1883.

Commissioner DOWD then offered the following resolution:

Whereas, Additional furniture is now required for the use of this Commission and its employees, and the appropriation of $1,500, approved by the Board of Estimate and Apportionment on the 6th day of July, 1883, is now exhausted; therefore be it

Resolved, That the sum of $1,500 be and the same is hereby appropriated for the purchase of necessary

furniture and fixtures for the office of the Aqueduct Commissioners and its employees, subject to the approval of the Board of Estimate and Apportionment, as required by Section 41, Chapter 490, Laws of 1883.

This resolution was adopted unanimously, and the Secretary was directed to transmit copies of both of the above resolutions to the Board of Estimate and Apportionment for its approval.

On motion of the COMPTROLLER, the matter of making such alterations as may be required in the rooms to be leased in the Stewart Building, and providing necessary furniture and fixtures, was referred to the Committee on Construction, with power.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

NOTE.—On Wednesday, February 25, 1885, at the regular hour of meeting, Commissioners Dowd and Baldwin attended, and in the absence of a quorum the Stated Meeting was adjourned until Wednesday next, March 4, 1885, at 3 o'clock P. M.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 78 Tribune Building, Wednesday, March 4, 1885, at 3 o'clock P. M.

Commissioners present:

The Comptroller.
Commissioner of Public Works.
Commissioners JAMES C. SPENCER, WILLIAM DOWD and C. C. BALDWIN.

Also Chief Engineer Church, Assistant Chief Engineer Fteley and Consulting Engineer Davis; and Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works; also Adolph E. Sanger, Esq., President of the Board of Aldermen.

In the absence of the President, Vice-President DOWD presided.

The minutes of the Stated Meeting of February 18th were read and approved.

The Committee of Finance and Audit reported the examination and audit of bills included in vouchers Nos.

543 to 553; which vouchers were, on motion of Commissioner SPENCER, approved and ordered certified to the Comptroller for payment.

The said Committee also made special report, dated March 3, 1885, upon the claim of Mrs. William Vail for lands taken in fee for shaft site No. 2, in the Town of New Castle, in Westchester County, and for easement rights upon said lands, and recommended that said claim be adjusted by agreement with the owners under Section 23 of Chapter 490, Laws of 1883, for the sum of $3,000.

On motion of Commissioner SPENCER, it was

Resolved, That in the opinion of the Aqueduct Commissioners, it is for the best interest of the City to purchase by agreement with Mrs. William Vail, under the provisions of Section 23, Chapter 490, Laws of 1883, the land in the Town of New Castle, in Westchester County, taken in fee for shaft site No. 2, and dumping ground, together with an additional adjoining parcel of about one acre—being about 7½ acres in all; also for a temporary easement for roadway, and an easement in perpetuity for the tunnel through said lands, a distance of about 1,900 feet, for the sum of $3,000, and that an agreement be made therefor, subject to the approval of the Board of Estimate and Apportionment of the City of New York, as provided in the aforesaid section of said act.

The Committee on Construction submitted a report, dated February 19, 1885, as follows:

1st. Upon persons selected for overseers and laborers, for making soundings south of One Hundred and Thirty-

fifth street, as authorized by resolution of the Commissioners, of February 11, 1885, and stating that—

" The Commissioners having fixed no rate of compensatation for services of said overseers and laborers, the Committee have decided upon the rate of $3 per day for the overseers, and $2 per day for the laborers."

This action was approved by the Commissioners.

2d. Recommending the appointment of Henry H. Bowly to the position of Leveler, in place of Judd A. Lockwood, promoted.

On motion of the COMMISSIONER OF PUBLIC WORKS, this recommendation was approved, and Mr. Henry H. Bowly was appointed to the position of Leveler, in the Engineer Department of the Commissioners, with compensation at the rate of $1,200 per annum, to date from his entrance upon the discharge of his duties under this appointment.

3d. That the Committee having further considered the application of Messrs. O'Brien & Clark and Heman Clark for additional shafts on Section 9 and Section B of the new Aqueduct, and having obtained the opinion of the Chief Engineer and Consulting Engineer, that they " are of the opinion that at this time, and under existing conditions of the work, the public interests do not require that the said shafts shall be sunk," the Committee concurs in this opinion of the engineers, and ask to be discharged from further consideration of the matter.

On motion of the COMMISSIONER OF PUBLIC WORKS, this report was accepted and approved, and the Committee discharged as requested.

The Committee on Construction next reported, under date of February 25, 1885, upon certain proposed modifications in the tunnel at Shaft No. 24 and at Shaft No. 20, the consideration of which was laid over at the meeting of February 18, 1885, and submitted the following resolution:

Whereas, In the report, dated February 16, 1885, the Chief Engineer recommends that the spaces between the foot of Shaft No. 24 and the foot of the incline on Section A, and between the foot of Shaft No. 20 and the foot of the incline on Section B of the new Aqueduct be increased one hundred feet each for the purpose of facilitating the construction work at said places; now, therefore, it is

Resolved, That the Chief Engineer be and he is hereby authorized and directed to make the extensions above named, under the provisions of Clause No. 57 of the Contracts for the Construction of Sections A and B of said Aqueduct.

And the Secretary is hereby directed to inform the owners of the property where the above-named changes are to be made, and to request their assent thereto.

On motion of Commissioner BALDWIN, this resolution was adopted unanimously.

The Committee on Construction submitted another report, dated March 2, 1885, as follows:

1st. Recommending the appointment of Mr. Walter S. Church to the position of Assistant Engineer in the office

of the Chief Engineer, with compensation at the rate of $2,400 per annum.

2d Recommending the appointments of—

Mr. Norman R. Kelly, temporarily, to the position of Mechanical Draughtsman, with compensation at the rate of $125 per month.

Mr. William G. Atkinson, temporarily, as Draughtsman, with compensation at the rate of $100 per month.

Two night watchmen to guard the street openings, maintain lanterns thereat, and to protect the office of the engineers of the Seventh Division.

David O'Shea and Thomas McCormack as Laborers on the Croton Survey, Division No. 1, and of John J. Davitt and James McCarty, as Laborers on the soundings in the Seventh Division, in place of others who have declined, or not reported for duty.

3d. Recommending that the two dozen India rubber suits asked for in the requisition of the Engineer of Construction, February 10, 1885, be purchased, and furnished to the engineers of the several divisions under suitable regulations to ensure proper care of the suits.

On motion of Commissioner SPENCER, all of the above recommendations were approved by the Commissioners, and the appointments made, at the rate of compensation named for the persons respectively; said compensation to commence from the date of entrance upon the discharge of their duties.

The Secretary presented communications, as follows:

1st. From the Comptroller, dated February 28, 1885, giving notice of the issue of warrants for vouchers not certified by the Aqueduct Commissioners, and appertaining to the work of the Commissioners of Appraisal for Westchester County, amounting to $443.54; which communication was ordered to be placed on file, and proper entry thereof made upon the books of this Commission.

2d. A letter from the Comptroller, dated March 3, 1885, giving notice of the sale of bonds, for account of the "Additional Water Stock" fund; which was read, and ordered to be spread upon these minutes, as follows:

"CITY OF NEW YORK—FINANCE DEPARTMENT,
COMPTROLLER'S OFFICE, March 3, 1885.

JAMES W. MCCULLOH, Esq.,
Secretary, Aqueduct Commission:

Sir,—Under a resolution adopted by the Aqueduct Commission, January 14, 1885, requesting the Comptroller to raise the sum of $1,500,000 for the monthly payments to become due to contractors, on contracts awarded for the construction of the Aqueduct between the Harlem River and the Croton Dam, pursuant to Section 32 of Chapter 490 of the Laws of 1883, bids were opened at the Comptroller's office, February 26, 1885, for that amount of 'Additional Water Stock of the City of New York,' bearing interest at the rate of three and one-half per cent. per annum, free from city and county taxation, and payable October 1, 1904, according to advertisement for proposals, a copy of which is herewith transmitted.

The whole of the loan was taken at a premium, amounting to $93,440, the total proceeds being $1,593,440, which sum has been paid into the City Treasury to the credit of the account of 'Additional Water Fund,' and is subject to the requisition of the Aqueduct Commissioners for the purposes mentioned in said resolution.

Yours respectfully,

EDWARD V. LOEW,
Comptroller."

3d. Communications from Charles V. Adee, Clerk of the Board of Estimate and Apportionment, dated February 21, 1885, certifying to the action of the said Board upon matters submitted by this Commission.

These communications were read, and the action of the said Board upon said matters ordered to be entered upon these minutes as follows:

"RESOLUTIONS adopted by the Board of Estimate and Apportionment at a meeting held February 21, 1885.

"*Resolved*, That the Board of Estimate and Apportionment hereby approves of the several agreements made and entered into by the Aqueduct Commissioners with the owners of certain parcels of real estate taken for the construction of the new Croton Aqueduct, for the amount of compensation to be paid to them, as provided by Section 23 of Chapter 490 of the Laws of 1883, as follows:

FIRST.—Agreement with Mr. Jay Gould for conveyance of a piece or parcel of land in the Town of Greenburg, Westchester County, State of New York, containing

$20\frac{572}{1000}$ acres, as described therein, for the sum of six thousand six hundred and eighty-five dollars and ninety cents ($6,685.90).

SECOND.—Agreement with Henry Welger for conveyance in fee of a piece or parcel of land in the Town of Mount Pleasant, Westchester County, State of New York, containing $5\frac{721}{1000}$ acres, as described therein, for the sum of three thousand five hundred dollars ($3,500).

THIRD.—Agreement with Mr. Thomas C. Edwards for conveyance in fee of a piece or parcel of land in the Town of Greenburg, Westchester County, State of New York, containing $1\frac{798}{1000}$ acres, as described therein, for the sum of three thousand dollars ($3,000).

FOURTH.—Agreement with Mr. Gulian L. Dashwood for grant of easement rights and damages during the use and occupation of a piece or parcel of land in the Twenty-fourth Ward of the City of New York, as described therein, for the sum of four thousand three hundred and forty dollars ($4,340), in full compensation therefor during the period of four years from the first day of February, 1885, and such further compensation for a longer period, if required, as provided in said agreement.

Whereas, The Aqueduct Commissioners by resolution adopted February 18, 1885, have authorized the leasing of rooms for their offices in the Stewart Building, corner of Chambers street and Broadway, for the term of three years from May 1, 1885, and have appropriated fifteen hundred dollars ($1,500) for the purchase of necessary furniture and fixtures, subject to the approval of the Board

of Estimate and Apportionment, as provided by Section 41, Chapter 490 of the Laws of 1883:

Resolved, That the Board of Estimate and Apportionment hereby approves of the leasing by the Aqueduct Commissioners of Rooms Nos. 207, 209, 211, 212, 213, 214, 215 and 216, upon the fifth floor of the Stewart Building, corner of Broadway and Chambers street, for the term of three years from May 1, 1885, at a rental of eight thousand five hundred dollars ($8,500) per annum, and of the the appropriation of the sum of fifteen hundred dollars ($1,500) for the purchase of necessary furniture and fixtures for the office of said Aqueduct Commissioners, pursuant to the provisions of Section 41 of Chapter 490 of the Laws of 1883."

The Chief Engineer presented a communication, dated this day, in relation to the construction of a culvert through the dumping grounds near Shaft No. 23, in the Twenty-fourth Ward of the city, which communication was read, and on motion of Commissioner DOWD was referred to the Committee on Construction for investigation and report.

The Chief Engineer also presented a synopsis of the progress of the work on the Aqueduct up to March 3d, which was read and ordered placed on file.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 78 Tribune Building, Wednesday, March 11, 1885, at 3 o'clock P. M.

Commissioners present:

The Mayor.
The Comptroller.
Commissioner of Public Works.
Commissioners JAMES C. SPENCER, WILLIAM DOWD and C. C. BALDWIN.

Also Chief Engineer Church, Assistant Chief Engineer Fteley, Consulting Engineer Davis, and Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works.

The minutes of the Stated Meeting of March 4th were read and approved.

The Committee of Finance and Audit reported the examination and audit of bills included in vouchers Nos. 554 to 565; also of the second monthly estimates of work done by contractors upon the new Aqueduct between the Harlem River and Croton Dam, and included in vouchers Nos. 566 to 575; all of which vouchers were, upon motion

of Commissioner DOWD, approved by the Commissioners, and ordered certified to the Comptroller for payment.

The Secretary presented a communication from the Counsel to the Corporation, dated March 10, 1885, in relation to the manner of acquiring lands from the Van Courtland estate in the Twenty-fourth Ward of the city; which communication was read, and on motion of Commissioner SPENCER, the matter was referred to the Committee of Finance and Audit, with power to negotiate and agree with the owners of the lands in question, and to prepare and report contract therefor, as provided for in Section 23, Chapter 490, Laws of 1883.

The Secretary presented the agreements for settlement with Gulian L. Dashwood for temporary easement rights and damages as authorized by resolution of the Commissioners of January 15, 1885, which agreements were duly executed by Mr. Dashwood; and upon motion of Commissioner SPENCER, it was

Resolved, That the President of the Commission be and he is hereby authorized and requested to execute said agreement on behalf of the Aqueduct Commissioners.

The Chief Engineer stated that the contractors asked for copies of the monthly estimates of the 90 per cent. to be paid for work done upon the new Aqueduct, and on motion of the COMPTROLLER, the Secretary was directed to furnish the contractors with copies of each of said monthly estimates.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 78 Tribune Building, Wednesday, March 18, 1885, at 3 o'clock P. M.

Commissioners present:

The Mayor.
The Comptroller.
Commissioner of Public Works.
Commissioners JAMES C. SPENCER, WILLIAM DOWD and C. C. BALDWIN.

Also Chief Engineer Church, Assistant Chief Engineer Fteley and Consulting Engineer Davis; also Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works.

The minutes of the meeting of March 11th were read and approved.

The Committee of Finance and Audit reported the examination and audit of bills included in vouchers Nos. 576 to 586, which vouchers were, on motion of Commissioner

DOWD, approved by the Commissioners, and ordered certified to the Comptroller for payment.

The Committee on Construction made no report.

A communication was received from the Comptroller, giving notice of the issue of a warrant for voucher not certified by the Aqueduct Commissioners, and appertaining to the work of the Commissioners of Appraisal for the City of New York, and amounting to $200, which was ordered placed upon file and entry thereof made upon the books of this Commission.

The Secretary presented the agreements heretofore authorized to be made with Thomas C. Edwards and Henry Welger for lands in Westchester County, which have been duly executed by the above-named parties; and, upon motion of Commissioner SPENCER, the President was authorized and requested to execute said agreements on behalf of the Commissioners.

The Secretary next presented a communication from the Counsel to the Corporation, dated March 13, 1885, in relation to the nature of certain easement rights therein named upon lands in Westchester County, which communication was read, and, on motion of Commissioner SPENCER, was referred to the Committee on Construction for investigation and report.

The Chief Engineer presented a communication, dated March 18, 1885, recommending the promotion of Mr. Edward D. Johnston from the position of Leveler to that of Assistant Engineer, at a compensation of $1,800 per

annum, and his assignment to duty at the Pocantico Cut and Blow-off.

On motion of Commissioner SPENCER, this recommendation of the Chief Engineer was approved, and Mr. Johnston promoted to the position of Assistant Engineer, with compensation at the rate of $1,800 per annum.

The Commissioners then went into Executive Council for the consideration of the matter of building a sewer and a drain upon the dumping grounds of Shaft No. 23, in the Twenty-fourth Ward of the city; and upon resuming the open session adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 78 Tribune Building, Wednesday, March 25, 1885, at 3 o'clock P. M.

Commissioners present:

The Comptroller.
Commissioner of Public Works.
Commissioners JAMES C. SPENCER, WILLIAM DOWD and C. C. BALDWIN.

Also Chief Engineer Church, Assistant Chief Engineer Fteley and Consulting Engineer Davis; also Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works.

In the absence of the President, Vice-President DOWD presided.

The minutes of the Stated Meeting of the 18th inst. were read and approved.

The Committee of Finance and Audit reported the examination and audit of bills included in vouchers Nos. 588

to 605, which vouchers were, on motion of Commissioner SPENCER, approved and ordered to be certified to the Comptroller for payment.

The Committee further reported the accounting and payment by the Secretary into the Finance Department of the City, to the credit of the "Additional Water Fund," of the sum of $635, the same being the proceeds of sales of plans of the new Aqueduct, made by authority of the Commissioners.

The Committee on Construction reported an additional section to the By-Laws, entitled "Article V.," for the organization and government of the Engineer Department of the Commission; which report was received and laid over for consideration and future action, and copies of the proposed by-law ordered to be furnished to each of the Commissioners.

The Committee next presented a report, dated March 23, 1885, with recommendations as follows:

1st. Recommending that "the Chief Engineer be authorized to purchase one standard machine for testing cement, at a cost not exceeding $295, for use at the engineer's headquarters at Tarrytown, and of eight similar but smaller machines at a cost not exceeding $236 each, for use at the offices of the Division Engineers; also the purchase of ten planimeters, at a cost of $18.75 each."

All of the above recommendations were approved by the Commissioners, and the Chief Engineer was authorized to make the purchases.

2d. Recommending "the promotion of Robert Ridgeway from the position of Leveler to that of Transitman, with compensation at the rate of $1,500 per annum; also the promotion of George Endicott, David O'Shea, Ramsey Turnbull, Abraham Kellogg and Edward Whitehouse from Laborers to Chainmen, with compensation at the rate of $60 per month."

These recommendations were approved and the promotion made, to date from this day.

3d. The Committee submitted a supplemental report received by them from the Chief Engineer in relation to the progress upon the Aqueduct work; which report was ordered placed with former reports thereon and laid over for future consideration.

A communication was received from the Comptroller, dated March 21, 1885, giving notice of the issue of a warrant for vouchers not certified by the Commissioners, and appertaining to the work of the Commissioners of Appraisal for Westchester County, and amounting to $225.37, which was read, ordered placed upon file, and proper entry thereof made upon the books of this Commission.

The Chief Engineer asked authority to order the making by Heller & Brightly, of Philadelphia, of one cross-section disc, for making measurements in the Aqueduct tunnels, at a cost not exceeding $70; which request was approved, and authority given to order the disc.

Commissioner SPENCER called up the matter of the construction of a sewer and drain upon the dumping grounds

for Shaft 23 in the Twenty-fourth Ward of the city, which matter had been laid over from the meeting of March 4, 1885, and the Committee on Construction was thereupon requested to prepare and submit to the Commissioners proper resolutions for authorizing said work to be done, under the provisions of Section 33 of Chapter 490, Laws of 1883, and also a form of certificate as required by said Section for work done without contract.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 78 Tribune Building, Wednesday, April 1, 1885, at 3 o'clock P. M.

Commissioners present:

The Comptroller.
Commissioner of Public Works.
Commissioners JAMES C. SPENCER, WILLIAM DOWD and C. C. BALDWIN.

Also Chief Engineer Church, Assistant Chief Engineer Fteley and Consulting Engineer Davis; also Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works.

In the absence of the President, Vice-President DOWD presided.

The minutes of the Stated Meeting of March 25th were read and approved.

The Committee of Finance and Audit reported the examination and audit of bills included in vouchers Nos. 610

to 627; which vouchers were, on motion of Commissioner SPENCER, approved by the Commissioners and ordered certified to the Comptroller for payment.

The Committee on Construction made reports, dated March 30, 1885, with recommendations, as follows:

1st. Upon a communication from the Counsel to the Corporation, dated March 13, 1885, in relation to easement rights upon certain lands in Westchester County required for constructing the new Aqueduct, and recommending the acquiescence of the Commissioners in the instructions therein proposed by said Counsel to the Corporation to be given to the counsel representing the City before the Commissioners of Appraisal for that county, with respect to the nature and extent of the easement right sought to be acquired under the proceedings pending before said Commissioners of Appraisal.

The recommendations of the Committee were approved by the Commissioners, and the Secretary was instructed to inform the Counsel to the Corporation thereof.

2d. In relation to the construction of a sewer and drain across the dumping grounds for the material from Shaft No. 23, upon lands in the Twenty-fourth Ward of the City, taken in fee by the City from Gustav Schwab, Lewis G. Morris and Joseph H. Godwin, and submitting a form of resolution authorizing the construction of said sewer and drain, without contract, as provided for by Section 33, Chapter 490 of the Laws of 1883, and a form of the certificate required by said section to be made by the Aqueduct Commissioners, which forms had been prepared in compliance with the request made by the Commissioners at their last meeting.

Commissioner SPENCER then moved, and Commissioner SQUIRE seconded, the adoption of the resolution, as follows:

Whereas, In the opinion of the Aqueduct Commissioners a permanent sewer and drain should be constructed for the purpose of conducting and preserving free from obstruction the existing streams and drains flowing into and upon the lands taken by the City in fee from Gustav Schwab, Lewis G. Morris and Joseph H. Godwin, for dumping grounds of material from Shaft No. 23 of the new Croton Aqueduct, and for the further purposes of facilitating the dumping of said material in a manner more advantageous for the future use or disposal of the said lands by the City, and avoiding, as far as possible, all pending sanitary objections and claims for damage to adjacent property, and that said sewer should be constructed without contract and by agreement with competent parties, as authorized by Section 33 of Chapter 490 of the Laws of 1883, and within the limit of five thousand dollars, prescribed by said section; now, therefore, be it

Resolved, That the Committee on Construction be and they are hereby authorized and requested to have plans and specifications prepared by the engineers of this Commission for the construction of said sewer and drain, and to obtain estimates and bids for doing said work at a cost within the prescribed limit of $5,000, and to prepare and submit to the Commissioners for their approval an agreement with the persons by whom it is in the opinion of said Committee to the best interest of the City that the work shall be done.

The resolution was adopted by the affirmative vote of all the Commissioners present.

The certificate prepared by the Committee was then signed by the Commissioners present, and ordered to be entered upon these minutes, as follows:

"We, the Aqueduct Commissioners, hereby certify that in our opinion a sewer and drain should be constructed across the lands in the Twenty-fourth Ward of the city, taken by the City in fee from Gustav Schwab, Lewis G. Morris and Joseph H. Godwin, for dumping grounds of material from Shaft No. 23 of the new Croton Aqueduct, said sewer to commence at a point on the westerly side of Sedgwick avenue, opposite the foot of the road or lane known as the 'Archer Lane,' and to run thence westerly across said dumping grounds, for the purposes of conducting and preserving free from obstruction the existing streams and drains flowing towards and upon said lands, and to facilitate the dumping of the material upon said lands in the manner most advantageous to the future use or disposal of the lands by the City, and that in our opinion it is for the public interest that said sewer and drain should be constructed without proposals and formal contract, and under agreement with competent persons, in accordance with Section 33 of Chapter 490 of the Laws of 1883, and our reasons for such conclusions are that the work should be done with the least possible delay in order to avoid sanitary objections and impending claims for damage to adjacent property, which might arise if proper provision be not at once made for conducting said streams and drains across said dumping grounds."

And the Secretary was directed to inform the Mayor of

this action, and to submit the certificate for his signature, if it meets his approval.

3d. Recommending the appointment of Rowland G. Rood, as Laborer, with compensation at the rate of $2 per day, and the promotion of William S. Page from Laborer to Rodman, with compensation at the rate of $75 per month.

On motion of Commissioner SPENCER, the above named appointment and promotion were made, to date from this day.

4th. Recommending that the Commissioner of Public Works and the Commissioners of the Department of Public Parks be requested to furnish to this Commission certain information in relation to a proposed reservoir north of the Harlem River, and submitted the following resolution:

Resolved, That the Commissioner of Public Works and the Commissioners of the Department of Public Parks be and they are hereby requested to furnish to this Commission, at as early a day as practicable, any preliminary surveys, results thereof, and reports thereon, heretofore made by the engineers of their departments for a reservoir to be connected with the new Croton Aqueduct, and located north of the Harlem River; and upon the receipt of such information, the Committee on Construction and the Chief Engineer are hereby authorized and directed to make such further examinations and surveys in regard to said reservoir, its location, and expediency, as shall be deemed necessary by them for the full information of this Commission, and the said Committee on Construction shall

make report thereon to this Commission, at as early a date as practicable, with the opinions of the Chief and Consulting Engineers, and such suggestions and recommendations of the said Committee as it shall deem to be proper and necessary in the premises.

Which resolution was adopted unanimously.

A communication was received from the Comptroller, dated March 28, 1885, giving notice of the issue of a warrant for voucher not certified by the Aqueduct Commissioners, and appertaining to the work of the Commissioners of Appraisal for Westchester County, amounting to $250; also stating a balance to the credit of the "Additional Water Fund" upon the books of the Comptroller, amounting to $1,687,034.63, in which balance is included the sum of $635 received from the Secretary of the Aqueduct Commissioners, March 24, 1885, for sales of maps and plans.

The communication was read, ordered placed upon file, and proper entries thereof made upon the books of this Commission.

The Commissioners then resumed the consideration of the proposed additional by-law "Article V," for the organization and government of the Engineer Department of the Commission; and laid it over for further consideration.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 78 Tribune Building, Wednesday, April 8, 1885, at 3 o'clock P. M.

Commissioners present:

The Mayor.
The Comptroller.
Commissioner of Public Works.
Commissioners JAMES C. SPENCER, WILLIAM DOWD and C. C. BALDWIN.

Also Chief Engineer Church and Assistant Chief Engineer Fteley; also Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works.

The minutes of the Stated Meeting of April 1st were read and approved.

The Committee of Finance and Audit reported the examination and audit of monthly estimates for work done by contractors during the month of March, and included in vouchers Nos. 628 to 637, also of bills included in vouchers Nos. 638 to 648; all of which vouchers were, on

motion of Commissioner DOWD, approved by the Commissioners, and ordered certified to the Comptroller for payment.

The Committee on Construction made report, dated April 6, 1885, as follows:

1st. In relation to instructions given to the Chief Engineer by the Committee, to take immediate possession of the tenement house, known as the Half-Way House, at South Yonkers Cut, and designated on the property maps as Parcel No. 310, and to remove all trespassers therefrom, under and by virtue of the provisions of Section 10, Chapter 490, Laws of 1883, which action was approved by the Commissioners.

2d. Recommending the promotion and appointment of the following persons, with compensation at the rate named for them respectively, viz.:

The promotion of—

Preston K. Yates, from Transitman to Assistant Engineer, at $1,800 per annum.

Solomon Davis, from Overseer to Transitman, at $1,500 per annum.

Beverly R. Value, from Rodman to Leveler, at $1,200 per annum.

Edward E. De Lancey, from Chainman to Rodman, at $75 per month.

Wilbur E. Horton, from Laborer to Rodman, at $75 per month.

And the appointment of—

William B. Swan as Assistant Engineer, at $1,800 per annum.

Louis P. De Luze as Rodman, at $75 per month.
Richard Baldwin as Laborer, at $2 per day.

All of the recommendations were approved, and the above named promotions and appointments made by the Commissioners, the compensation of the persons promoted to commence from this date, and of those appointed to commence from the date of their entrance upon the discharge of their duties under this appointment; and the Chief Engineer was directed to report such dates to the Commissioners.

The Committee then presented a report from the Chief Engineer, dated April 8, 1885, giving a tabulated statement of the progress of the contractors' work on the new Aqueduct to April 4, 1885; which report was ordered placed upon file with former reports upon the same matter.

Commissioner SPENCER then offered the following resolution:

Resolved, That the sum of $860.68 be and the same is hereby appropriated for the payment for one pair of horses, one wagon and harness, and stable fittings, for use of the Assistant Chief Engineer.

The resolution was adopted.

The Secretary presented a communication from the Comptroller, dated April 4, 1885, giving notice of the issue of a warrant for voucher not certified by the Aqueduct Commissioners, for expenses appertaining to the work of the Commissioners of Appraisal for the City and County

of New York, and amounting to $200; which communication was ordered placed upon file, and proper entry made thereof upon the books of the Commission.

The Secretary next presented the agreement with Mr. Jay Gould, authorized by resolution of the Commissioners of January 21, 1885, and duly executed by Mr. Gould; whereupon Commissioner SPENCER moved that the President or Vice-President be and is hereby authorized and requested to execute said agreement on behalf of the Aqueduct Commissioners, and to cause the duplicate thereof to be delivered to Mr. Gould; which motion was adopted unanimously.

The Secretary stated that in obedience to the instructions of the Commissioners of April 1, 1885, the certificate in relation to the construction of a sewer and drain upon the dumping grounds for Shaft No. 23 in the Twenty-fourth Ward of the city, had been presented to the Mayor, and by him approved and signed; whereupon the Secretary was directed to place the certificate on file in this office.

Commissioner DOWD then offered the following resolution, which was adopted unanimously:

Resolved, That the Chief Engineer is hereby directed to furnish to the Committee of Finance and Audit, as soon as practicable, a complete inventory of the property of every kind belonging to the Commissioners, now in the use and custody of the Engineer Department; also where, and in whose custody or use the same now is.

The proposed additional by-law, "Article V.," was then called up by Commissioner SPENCER, but laid over to afford further opportunity for its examination by the Mayor.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 78 Tribune Building, Wednesday, April 15, 1885, at 3 o'clock P. M.

Commissioners present:

The Mayor.
The Comptroller.
Commissioner of Public Works.
Commissioners JAMES C. SPENCER, WILLIAM DOWD and C. C. BALDWIN.

Also Chief Engineer Church, Assistant Chief Engineer Fteley and Consulting Engineer Davis, and Consulting Engineer Adams of the Department of Public Works.

The minutes of the Stated Meeting of April 8th were read and approved.

The Committee of Finance and Audit reported the examination and audit of bills included in vouchers Nos. 649 to 672, which vouchers, upon motion of Commissioner DOWD, were approved by the Commissioners and ordered to be certified to the Comptroller for payment.

The Committee on Construction made report, dated April 13, 1885, with recommendations as follows:

1st. That the Chief Engineer be authorized to purchase additional instruments, as follows, viz.:

For use in making surveys for a proposed new reservoir in the annexed district of the city, north of the Harlem River:

One transit	$235 00
One level	150 00
One leveling rod	15 00
Lining rods, tapes, etc	50 00
	$450 00

To be placed at the Tarrytown office for use in case of accident to instruments now in use upon the line:

One transit	$235 00
One level	150 00
Two leveling rods	30 00
	$415 00

These recommendations were approved by the Commissioners, and authority given to the Chief Engineer to purchase the above-named instruments at a total cost not exceeding $865.

2d. Recommending that the Chief Engineer be authorized to have the dwelling house upon the lands taken by the City from Henry Welger, at the Pocantico River crossing of the new Aqueduct in Westchester County, removed to another part of the lands taken at that place

by the City, and there fitted for use of the engineers of that division, at a cost not exceeding $450.

On motion of Commissioner SPENCER, this recommendation was approved by the Commissioners, and the Chief Engineer was authorized and directed to have said dwelling removed at once, and fitted up for use of the engineers at a cost not to exceed $450.

Notice was received from the Comptroller, dated April 11, 1885, of the issuance of a warrant for vouchers not certified by the Aqueduct Commissioners, for expenditures appertaining to the work of the Commissioners of Appraisal for the City and County of New York, amounting to $200, which was ordered placed on file, and proper entry thereof made upon the books of this Commission.

A communication was received from the Mayor, dated April 10, 1885, transmitting for the consideration of the Commissioners reports dated April 9, 1885, from the Health Department, in relation to an inspection recently made of the watershed of the Croton River, and of impurities now flowing into it.

On motion of the COMPTROLLER, the said reports were referred to the Chief Engineer for consideration and report to the Commissioners.

The Chief Engineer presented a communication of this date, asking permission to have a temporary office erected at the South Yonkers Cut, for use of the engineers in charge of the work at that place, and to cost about $250.

The matter was referred to the Committee on Constructions with power.

The Commissioners then went into Executive Council for consideration of the report of the Special Committee to which was referred, on January 14, 1885, the claims of Mr. Samuel L. M. Barlow, for compensation for the fee and easement rights, required for the new Aqueduct upon his lands in the Twenty-fourth Ward, and for damages to his adjoining property.

Upon resuming the open session, Commissioner SPENCER offered the following resolution, which was unanimously adopted:

Resolved, That for the purpose of effecting a prompt and amicable adjustment of the claims of Mr. Samuel L. M. Barlow for compensation for lands taken from him by the City in fee for certain easement rights, and for damages inflicted upon his adjoining lands by such taking and use of his lands for the construction of the new Croton Aqueduct in the Twenty-fourth Ward of the city, and to avoid litigation and delay in said construction, it is the sense of the Aqueduct Commissioners that it is for the interest of the City that the said claims of Mr. Barlow be adjusted by agreement, as provided for by Section 23, Chapter 490, Laws of 1883, and the payment to him in full settlement of said claims of the following amounts, viz.:

For the lands taken in fee, and described upon the property maps, filed in the office of the Register of the

City and County of New York, July 9, 1884, as follows: "Parcel No. 45," being the dumping grounds for material from Shaft No. 22, 2.611 acres, at $4,093 per acre	$10,686 82
Parcel No. 41, being the site of Shaft No. 22, .257 acres, at $5,500 per acre	1,413 50
For easement in perpetuity, under Parcels Nos. 46 and 48, for the Aqueduct tunnel, .374 acres	1,000 00
For temporary easement during construction of the Aqueduct, over Parcels Nos. 42 and 44, .222 acres	1,000 00
	$14,100 32

The said sum of fourteen thousand one hundred dollars and thirty-two cents to be paid with interest from the date of the filing of the oath of the Commissioners of Appraisal, September 3, 1884.

And that in full compensation for all damages inflicted upon the adjoining lands and premises of Mr. Barlow by the taking and use of the above described parcels of land, and construction of said Aqueduct, and for all counsel fees, costs and expenses, in relation to the claims herein referred to, Mr. Barlow be paid the further sum of five thousand dollars ($5,000).

And the Secretary is hereby directed to communicate this action to the counsel of Mr. Barlow, and to inform them that upon due notice of the acceptance by Mr. Barlow of the above terms for the adjustment of his claims, the Commissioners will submit the

same to the Board of Estimate and Apportionment for its approval, pursuant to Section 23, Chapter 490 of the Laws of 1883.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 209 Stewart Building, Wednesday, April 22, 1885, at 3 o'clock P. M.

Commissioners present:

The Comptroller.
Commissioner of Public Works.
Commissioners JAMES C. SPENCER, WILLIAM DOWD and C. C. BALDWIN.

Also Chief Engineer Church, Assistant Chief Engineer Fteley and Consulting Engineer Davis; also Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works.

In the absence of the President, Vice-President DOWD presided.

The minutes of the Stated Meeting of April 15th were read and approved.

The Committee of Finance and Audit reported the examination and audit of bills included in vouchers Nos.

673 to 679, which vouchers, on motion of Commissioner SPENCER, were approved by the Commissioners and ordered certified to the Comptroller for payment.

The Committee on Construction presented a report, dated April 20, 1885:

1st. Recommending the following promotions in the Engineer Corps, and the assignment of the persons named to duty on the Seventh Division, namely:

George R. Olney, from Laborer to Leveler, at $1,200 per annum.

Charles G. Douw, from Chainman to Rodman, at $75 per month.

George E. Washburn, from Laborer to Chainman, at $60 per month.

Cornelius V. V. Powers, from Laborer to Chainman, at $60 per month.

All of the above recommendations were approved by the Commissioners, and the promotions were made as above named, the compensation of the persons to date from their entrance upon the discharge of their respective duties under this promotion, and the Chief Engineer was directed to report said dates to the Commissioners' Auditor.

2d. Recommending the selection and appointment of an assistant clerk and a messenger for service in the Chief Engineer's office.

This recommendation was laid over for future consideration.

A communication was received from the Comptroller, dated April 18, 1885, giving notice of the issuance of a

warrant for voucher not certified by the Aqueduct Commissioners, and appertaining to the work of the Commissioners of Appraisal for Westchester County, and amounting to $217.12, which notice was ordered placed on file, and proper entry thereof made upon the books of this Commission.

The Secretary submitted a letter from E. Henry Lacombe, Esq., Counsel to the Corporation, dated April 15, 1885, enclosing copy of a letter from N. J. Waterbury, Esq., in relation to a portion of the lands taken from L. G. Morris, Esq., in the Twenty-fourth Ward of the city, for dumping grounds of material from Shaft No. 23 of the new Aqueduct, and asking instructions in relation to the matter. The letter of Mr. Lacombe was read, and action thereon deferred.

The Secretary presented a communication from Samuel L. M. Barlow, Esq., of April 21, 1885, in relation to the adjustment of his claim, as proposed by the Commissioners at their last meeting; which communication, after consideration in Executive Council, was laid over until the next meeting.

The Chief Engineer presented a report of this date upon the portion of the line of the new Aqueduct, from a point near Shaft No. 24, on the west bank of the Harlem River, to a point near One Hundred and Thirty-seventh street and Convent avenue, as shown upon Final Plan Sheet No. 5, adopted by the Aqueduct Commissioners April 9, 1884; also an accompanying diagram showing proposed modifications in the alignment of that part of the new Aqueduct.

The report was read, and upon motion of Commissioner

SPENCER, was referred to the Commissioner of Public Works for consideration of the proposed modifications, with request that he report his views thereon as soon as practicable; and the Chief Engineer was directed to confer with the engineers of the Department of Public Works upon the proposed modifications.

The Chief Engineer next presented a communication of this date, in relation to the construction of the new gate-house and its connections at Croton Dam, accompanied by detailed drawings prepared for the construction of the work, and asking instructions with regard to the same.

The matter was laid over for future consideration.

The proposed new by-law, "Article V.," was then discussed, and amendments proposed by the Commissioner of Public Works, and the matter was then laid over until the next meeting.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 209 Stewart Building, Wednesday, April 29, 1885, at 3 o'clock P. M.

Commissioners present:

The Mayor.
The Comptroller.
Commissioner of Public Works.
Commissioners JAMES C. SPENCER, WILLIAM DOWD and C. C. BALDWIN.

Also Chief Engineer Church, Assistant Chief Engineer Fteley and Consulting Engineer Davis; also Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works.

The minutes of the Stated Meeting of the 22d inst. were read and approved.

The Committee of Finance and Audit reported the examination and audit of bills included in vouchers Nos. 680 to 699, which vouchers, on motion of Commissioner DOWD, where approved by the Commissioners and ordered certified to the Comptroller for payment.

The Committee on Construction made report, dated the 27th inst., with recommendations, as follows:

1st. Upon request of the Chief Engineer, in a communication of 27th inst., the Committee recommend that the Chief Engineer be authorized to purchase twelve instruments for making cross-section measurements in the tunnel of the new Aqueduct, at a cost not exceeding $69.50 each—$834.

This recommendation was approved by the Commissioners, and the Chief Engineer was authorized to purchase the said instruments at a total cost not exceeding eight hundred and thirty-four dollars ($834).

2d. Submitting a further communication of the Chief Engineer of the 27th inst., requesting the appointment of one assistant clerk, one stenographer and typewriter, and one messenger for duty in his office, which appointments the Committee recommended to be made.

On motion of Commissioner SPENCER, the matter was laid over until the next meeting.

The Committee next presented a communication from Chief Engineer Church, dated April 27, 1885, recommending the promotion of Richard Baldwin and Gustave Curé from Laborers to Chainmen, with compensation at the rate of $60 per month, in which recommendations the Committee concurred.

On motion of Commissioner SPENCER, the recommendations were approved by the Commissioners, and the promotions made, to date from the 1st of May next.

The Auditor reported that the appropriation of $300 made by the Commissioners on February 11, 1885, for heating apparatus, furniture and stationery for office of the engineers of the Seventh Division had been exceeded to the amount of $6.81, and on motion of Commissioner DOWD an additional amount of $6.81 was appropriated to cover the excess reported.

The Chief Engineer presented a report, dated April 29, 1885, supplementary to his report of the 22d inst., in relation to certain proposed modifications of the new Aqueduct, between Shaft No. 24 and a point near One Hundred and Thirty-fifth street and Convent avenue, and stating that as the result of a conference between the engineers of this Commission and the engineers of the Department of Public Works, they had unanimously agreed upon certain modifications of the above-named portion of the new Aqueduct, and which modifications the Commissioner of Public Works would report to the Commissioners, with plans, for their adoption.

On motion of Commissioner SPENCER, the above report and that of the 22d inst. upon the same subject were ordered placed upon file.

The COMMISSIONER OF PUBLIC WORKS reported the agreement of the engineers of his Department and of this Commission upon the modifications to be made upon that part of the new Aqueduct between Shaft No. 24 and a point near One Hundred and Thirty-fifth street and Convent avenue, and submitted the plan of said modifications (marked Exhibit BB).

On motion of Commissioner SPENCER, the report of the Commissioner of Public Works and the plans of the pro-

posed modifications were accepted, and the plans referred to the Chief Engineer with instructions to prepare at once the specifications and detailed plans for the construction of that part of the new Aqueduct.

And the Secretary was directed to give notice of a public hearing, as required by Section 2, Chapter 490, Laws of 1883, in relation to the said modifications; said public hearing to be held at this office on Wednesday next, May 6, 1885, at 3 o'clock P. M.

The Commissioners then went into Executive Council for consideration of the communication of Mr. S. L. M. Barlow, of the 21st inst., in relation to the adjustment of his claims proposed by the Commissioners on the 15th inst.; and also for consideration of Article V. of the By-Laws.

The open session was then resumed, but no action was taken upon the last above-named matters, and the Commissioners adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 209 Stewart Building, Wednesday, May 6, 1885, at 3 o'clock P. M.

Commissioners present:

The Comptroller.
Commissioner of Public Works.
Commissioners JAMES C. SPENCER and C. C. BALDWIN.

Also Chief Engineer Church, Assistant Chief Engineer Fteley, and Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works.

On motion of Commissioner BALDWIN, Commissioner Spencer was elected Chairman.

Chairman SPENCER then declared the meeting open for public hearing, in relation to the proposed modifications to be made upon that part of the line of the new Aqueduct between a point near Shaft No. 24, on the easterly side of the Harlem River, and a point near One Hundred and Thirty-fifth street and Convent avenue, in the City of New York, as set forth in the following public notice:

"AQUEDUCT COMMISSIONERS' OFFICE,
Room 209, Stewart Building, No. 280 Broadway,
NEW YORK, April 29, 1885.

PUBLIC NOTICE.

To all whom it may concern:

In conformity with the requirements of Section 2, Chapter 490, Laws of 1883, of the State of New York, public notice is hereby given to all persons interested, that full opportunity will be afforded them to be heard in relation to the plan now under consideration by the Aqueduct Commissioners for a modification of the grade of the new Aqueduct, and for the location of shafts for constructing said Aqueduct, between a point in the vicinity of the present shaft upon the eastern bank of the Harlem River, near Sedgwick avenue, and known as Shaft No. 24, and a point near One Hundred and Thirty-fifth street, in Convent avenue in the City of New York, as shown upon the plans, maps and profiles in this office.

Said public hearing to be at the office of the Aqueduct Commissioners, Room 209, Stewart Building, No. 280 Broadway, in the City of New York, on Wednesday, May 6, 1885, at 3 o'clock P. M., and upon such subsequent days thereafter to which said hearing may be adjourned, until finally concluded.

By order of the Aqueduct Commissioners.

JAMES W. McCULLOH,
Secretary."

Mr. John D. Crimmins was then heard on behalf of the Convent of the Sacred Heart, owning lands at and near the southern terminus of the proposed modifications, and

after receiving from the Commissioners explanation of the proposed mode of locating and constructing the new Aqueduct to that point, he stated that the owners of the above-named property had no objection to offer thereto, but that they were greatly interested in its mode of construction from that point southward, and desired full opportunity to be heard when that matter was to be determined by the Commissioners.

Mr. Edward Morrison, of No. 13 West Thirty-ninth street, the owner of lots Nos. 15, 16 and 17, in Block 1076, north side of One Hundred and Forty-ninth street, under which the new Aqueduct will pass, was next heard, and explanations given him of the plan under consideration, and mode of obtaining his compensation for the easement required for the construction of the Aqueduct.

No one else appearing, the public hearing was then adjourned until Wednesday next, at 3 o'clock P. M., and the Secretary was directed to give public notice thereof.

The regular order of business was then taken up, and the minutes of the Stated Meeting of the 29th ulto. were read and approved.

The Committee of Finance and Audit reported the examination and audit of bills included in vouchers Nos. 704 to 716, which vouchers were, on motion of Commissioner SPENCER, approved, and ordered to be certified to the Comptroller for payment.

The Committee on Construction presented a report, dated May 4, 1885, viz.:

1st. Concurring in the recommendation of the Chief Engineer, for the promotion of Robert E. Morris from

Transitman to Assistant Engineer, with compensation at the rate of $1,800 per annum, and of George Endicott, from Chainman to Rodman, with compensation at the rate of $75 per month, and the appointment of Charles Percy Brown as laborer, at $2 per day.

On motion of Commissioner SPENCER, the above-named recommendations were approved by the Commissioners, and the promotions and appointment made, to date from the entrance of the parties upon the discharge of the duties to which they are now assigned.

2d. Recommending that the Chief Engineer, with the approval of a majority of the Committee on Construction, be authorized to grant permits for the removal, by owners of property along the line of the new Aqueduct, of stone excavated from the shafts or tunnel of the Aqueduct, for use in building walls, foundations and making other improvements upon adjacent property.

On motion of Commissioner BALDWIN, this recommendation was approved by the Commissioners, and authority given to grant permits for the purposes above named.

A letter was received from the Mayor, enclosing a communication from the President of the Department of Public Parks, in relation to the proposed route of the new Aqueduct through Central Park, and the damage to be inflicted upon the Park grounds by the construction of the Aqueduct in the manner proposed by this Commission.

The communications were read, and President Crimmins being present, he was heard in relation to the changes proposed by him; and upon motion of Commissioner

SPEFCER, the matter was referred to the Committee on Construction for investigation and report.

The Secretary next presented a letter from Cyrus W. Field, Esq., dated May 2, 1885, requesting the appointment, by the Aqueduct Commissioners, of watchmen or policemen to protect private property along the line of the new Aqueduct from depredation by the laborers employed by the contractors.

The letter was read, and referred to the Counsel to the Corporation for his opinion as to the power of the Commissioners to make such appointments, and as to the liability of the City in such cases.

By direction of the Committees of Finance and Audit, and Construction, the Auditor then presented a schedule showing the name, kind and place of occupation and rate of pay of all persons in the Engineering Department of the Commission on the 1st inst.

On motion of Commissioner SPENCER, said schedule was referred to the Secretary, with directions to have it revised to date of printing, and printed simultaneously with the rules and regulations, now under consideration for the Engineering Department.

On motion of Commissioner SPENCER, all matters of unfinished business were laid over for future consideration by the full Board, and the Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

334902

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 209 Stewart Building, Wednesday, May 13, 1885, at 3 o'clock P. M.

Commissioners present:

The Mayor.
The Comptroller.
Commissioner of Public Works.
Commissioners JAMES C. SPENCER, WILLIAM DOWD and C. C. BALDWIN.

Also Chief Engineer Church, Assistant Chief Engineer Fteley and Consulting Engineer Davis; also Chief Engineer Birdsall of the Department of Public Works and many citizens.

The meeting was opened for public hearing, pursuant to the following notice:

"AQUEDUCT COMMISSIONERS' OFFICE,
Room 209, Stewart Building, No. 280 Broadway,
NEW YORK, May 7, 1885.

PUBLIC NOTICE.—FINAL HEARING.

To all whom it may concern:

In conformity with the requirements of Section 2, Chapter 490, Laws of 1883, of the State of New York, public notice is hereby given to all persons interested, that full opportunity will be afforded them to be heard in relation to the plan now under consideration by the Aqueduct Commissioners for a modification of the grade of the new Aqueduct, and for the location of shafts for constructing said Aqueduct, between a point in the vicinity of the present shaft upon the eastern bank of the Harlem River, near Sedgwick avenue, and known as Shaft No. 24, and a point near One Hundred and Thirty-fifth street in Convent avenue, in the City of New York, as shown upon the plans, maps and profiles in this office.

Said public hearing to be at the office of the Aqueduct Commissioners, Room 209, Stewart Building, No. 280 Broadway, in the City of New York, on Wednesday, May 13, 1885, at 3 o'clock P. M.

By order of the Aqueduct Commissioners.

JAMES W. McCULLOH,
Secretary."

Upon invitation of the MAYOR, those present who were interested in property to be affected by the construction of the new Aqueduct upon that part of the line described in said notice were then heard.

Mr. John C. Shaw, counsel for the trustees of the Ogden estate, owning lands at Shaft No. 24 on Sedgwick avenue, in the Twenty-fourth Ward; of Nathaniel L. McCready, owning lots Nos. 15, 16 and 17 in Block No. 1072, in the Twelfth Ward; and of Miss Mary G. Pinckney, of No. 605 Fifth avenue, owning lands on the proposed extension of Convent avenue, adjacent to the property of the Convent of the Sacred Heart, in said Twelfth Ward, was first heard, and was given full explanation of the proposed manner of constructing the new Aqueduct, and the nature of the rights sought to be acquired by the City from property owners.

No objection was entered by Mr. Shaw on behalf of his clients.

Mr. Curtis B. Pierce, agent of Miss Pinckney, was also present, but did not desire to be heard.

Mr. George F. Gantz, owner of lands in Block No. 56, north of High Bridge Park, in the Twelfth Ward, whose water front on the Harlem River is proposed to be taken for dumping grounds, roadway and other purposes, was next heard, and given full explanation of the reasons for taking and using said water front.

The Mayor then asked if any one else present desired to be heard; and no one appearing, Commissioner BALDWIN moved that the hearing be now finally closed, which motion was adopted unanimously, and the Mayor declared the hearing closed.

The regular order of business was then taken up, and the minutes of the Stated Meeting of May 6th were read and approved.

The Committee of Finance and Audit reported the examination and audit by them on the 7th inst. of the fourth monthly estimates of amounts due to contractors for work done upon the new Aqueduct during the month of April, 1885, and included in vouchers Nos. 717 to 726, and the certification thereof by the Commissioners to the Comptroller for payment.

The amounts and summary of said estimates were read, and on motion of Commissioner DOWD the action of the Committee was approved.

The Committee on Construction made report, dated May 4, 1885, concurring in the recommendation of the Chief Engineer that Mr. Guiseppe Bonnano be appointed an Assistant Draughtsman in the Engineering Department of the Commission, with compensation at the rate of $100 per month; and on motion of Commissioner SPENCER, this recommendation was approved by the Commissioners, the compensation to date from the entrance of Mr. Bonnano upon the discharge of his duties.

Notice was received from the Comptroller, dated May 9, 1885, of the issue of warrant for voucher not certified by the Aqueduct Commissioners, and appertaining to the work of the Commissioners of Appraisal for Westchester County, amounting to $551; the notice was ordered placed upon file and proper entry thereof made upon the books of this Commission.

The Secretary submitted an opinion of the Counsel to the Corporation, dated May 11, 1885, in relation to the power of the Aqueduct Commissioners to appoint watchmen to preserve the peace and protect private property upon the

line of the new Aqueduct, and as to the liability of the City for offenses committed by persons employed by the contractors whilst not engaged in the prosecution of the work, which opinion was ordered placed upon file and action upon the matter deferred.

Chief Engineer Church presented a request of this date for instructions with regard to the amount of land to be taken for the new Aqueduct, shaft sites, dumping grounds, etc., on Manhattan Island; which was read, and on motion of the COMPTROLLER was referred to the Committee on Construction for investigation and report.

Commissioner SPENCER then offered, and Commissioner SQUIRE seconded, the following resolution:

Whereas, The Commissioner of Public Works heretofore from time to time submitted to the Aqueduct Commissioners plans for the location and construction of the new Aqueduct from the north side of Manhattan Valley to the Croton Dam, which plans were formally approved and finally adopted by the Commissioners, and filed in the office of the Aqueduct Commissioners and with the Commissioner of Public Works, on the 9th day of April, 1884, subject to such changes or modifications as the said Commissioners might from time to time deem necessary for the more efficient carrying out of the provisions of Chapter 490 of the Laws of 1883; and

Whereas, The Commissioner of Public Works, upon request of the Aqueduct Commissioners, has since prepared and submitted to them a plan for the modification of the grade of the said Aqueduct, and location

of the shafts for its construction, on that portion of the line so heretofore adopted, between a point in the vicinity of the present Shaft No. 24, near Sedgwick avenue, on the easterly side of the Harlem River, in the Twenty-fourth Ward of this city, and a point in Convent avenue near One Hundred and Thirty-fifth street, in the Twelfth Ward of this city, which plan was accepted by said Commissioners on the 29th day of April, 1885, and public hearing given thereon on the 6th and 13th days of May, 1885, due notice of said hearing having been given; it is hereby

Resolved, That, for the more efficient carrying out of the provisions of Chapter 490 of the Laws of 1883 of the State of New York, the plan submitted to the Aqueduct Commissioners by the Commissioner of Public Works on the 29th day of April, 1885, and marked Exhibit BB, "For a modification of the grade of the new Aqueduct, and location of shafts for its construction, upon that part of the line or route of said Aqueduct laid down upon Exhibit 'P,'" submitted to us by the Commissioner of Public Works, and adopted and filed by us on the 9th day of April, 1884, as "Final Plan Sheet No. 5," between a point designated on said Final Plan Sheet No. 5 as Station No. 1388 + 34.28, and near the present Shaft No. 24, at Sedgwick avenue, on the east side of the Harlem River, and a point in Convent avenue near One Hundred and Thirty-fifth street, in the City of New York, at Station 1538 of said Final Plan Sheet No. 5, be and the same is hereby approved and finally adopted by us as the plan for the grade of the new Aqueduct and location of the shafts for constructing said

Aqueduct, upon the portion of the line thereof hereinabove described, the said plan being now designated and marked "Final Plan Sheet No. 14."

Resolved, That the said plan now approved and adopted be certified by us, and filed in this office, and that a copy thereof, with our certificate of adoption thereon, be transmitted to the Commissioner of Public Works, with a request to forthwith prepare and submit to us the six similar property maps required by Section 4 of the aforesaid act, covering the area required for the construction of said Aqueduct, working shafts, adits, portals, dumping grounds, gate-houses, roadways and other appurtenances of said Aqueduct, according to the plan now approved and adopted.

These resolutions were adopted by the affirmative vote of all of the Commissioners, and the Secretary was directed to have copy of said Final Plan Sheet No. 14 prepared for certification by the Commissioners at their next meeting, and transmission to the Commissioner of Public Works.

The report of the Chief Engineer, of April 22, 1885, in relation to the construction of the new gate-house at Croton Dam, which report was laid over at the Stated Meeting of that date, was then taken up, and the engineers of the Commission and of the Department of Public Works were called upon for their views upon the subject, and all expressed their approval of the plans submitted with said report by the Chief Engineer; whereupon, on motion of the COMMISSIONER OF PUBLIC WORKS, the Commissioners informally approved said plans, and instructed the Secretary to prepare resolutions for their formal adoption by the Commissioners at the next Stated Meeting.

Commissioner SPENCER then called up the matter of the claim of Mr. Samuel L. M. Barlow, for land taken and easement rights required for the new Aqueduct, and for damages to his property in the Twenty-fourth Ward of the city, upon which matter the Special Committee to which it was referred made a report to the Commissioners, upon which they acted at their Stated Meeting of the 15th ulto., and stated that Mr. Barlow had declined to accept the terms then offered by the Commissioners, but that, as the result of a conference with his counsel, an adjustment could now be made by allowing Mr. Barlow the larger instead of the smaller of the two amounts which the Committee had named in their report as compensation for damages, viz.: the sum of $6,750 instead of $5,000. He therefore moved that the proposition made to Mr. Barlow by the Commissioners on April 15th be now amended by increasing the amount to be paid to Mr. Barlow as compensation for damages to the sum of $6,750.

This motion was adopted unanimously, and the Secretary was instructed to inform Mr. Barlow thereof immediately, and to request early notice if the proposition for settlement, as now amended, is accepted by him.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 209 Stewart Building, Wednesday, May 20, 1885, at 3 o'clock P. M.

Commissioners present:

The Mayor.
The Comptroller.
Commissioner of Public Works.
Commissioners JAMES C. SPENCER, WILLIAM DOWD and C. C. BALDWIN.

Also Chief Engineer Church, Deputy Chief Engineer Fteley and Consulting Engineer Davis; also Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works.

The minutes of the Stated Meeting of May 13th were read and approved.

The Committee of Finance and Audit reported the examination and audit of bills included in vouchers Nos. 727 to 772, which vouchers, on motion of Commissioner BALDWIN, were approved by the Commissioners and ordered certified to the Comptroller for payment.

The Committee on Construction presented a report, dated this day, supplemental to their report of April 27th, in relation to the appointment of additional clerks in the office of the Chief Engineer, and recommending the appointment of one additional clerk, with compensation at the rate of $1,200 per annum, and of one messenger, with compensation at the rate of $5 per week; also recommending Mr. William H. Spencer for said position of clerk.

On motion of Commissioner SPENCER, these recommendations were approved by the Commissioners, and Mr. William H. Spencer was appointed Assistant Clerk in the office of the Chief Engineer, with compensation at the rate of $1,200 per annum, to date from his entrance upon the discharge of his duty.

The Committee next made informal report upon the following communications received by them this day from the Chief Engineer, and recommended favorable action upon them by the Commissioners, viz.:

1st. Asking that Division Engineer Wolbrecht be allowed keep for his saddle horse, which he is using upon the work of his division, and recommending that Edward F. Playle, J. J. Conway and Fred. W. Carpenter be promoted from Laborers to Chainmen, with compensation at the rate of $60 per month.

On motion of Commissioner SPENCER, the Chief Engineer was authorized to allow Mr. Wolbrecht for keep of his horse whilst necessarily in use by him upon the work of the Commission; and the promotions above named were made, to date from this day; Commissioner Dowd dissenting.

2d. Asking authority to purchase—

12 steel tapes, 200 feet, at $23.33	$280 00
6 " 400 feet, at $31.67	190 00
12 leveling rods, at $12	144 00
6 sets plummet lamps, at $20	120 00
12 rolls tracing cloth, at $5	60 00
6 gross drawing pencils, at $10	60 00
100 copies plans new Croton Gate House Nos. 32 to 44	305 00
Total	$1,159 00

On motion of Commissioner SPENCER, the Chief Engineer was authorized to purchase the articles enumerated at a total cost not to exceed $1,159.

3d. Asking authority to procure three additional sets of instruments for use of the assistant engineers in charge of the open cuts at Pocantico, Ardsley and South Yonkers, at the following cost:

3 transits, at $235	$705 00
3 levels, at $150	450 00
3 leveling rods, at $16	48 00
Total	$1,203 00

On motion of Commissioner SPENCER, the Chief Engineer was authorized to purchase the above-named instruments at a cost not to exceed $1,203.

A communication was received from the Comptroller, dated May 16, 1885, giving notice of the issuance of a warrant for voucher not certified by the Aqueduct Com-

missioners, and pertaining to the work of the Commissioners of Appraisal for Westchester County, and amounting to $1,009.22; which communication was ordered placed upon file, and proper entry thereof made upon the books of this Commission.

The Secretary presented a communication from Mr. Peter T. Barlow, counsel of S. L. M. Barlow, Esq., giving notice of the latter's acceptance of the terms of adjustment of his claims, as proposed by the Commissioners at their meeting of the 13th inst.; whereupon Commissioner SPENCER offered the following resolution:

Resolved, That Mr. Samuel L. M. Barlow having accepted the terms proposed by the Commissioners at their meeting on the 13th inst. for the settlement of his claim for lands taken in fee and for certain easement rights for the construction of the new Aqueduct, and for damages to his adjoining property in the Twenty-fourth Ward of the city, the Secretary is hereby instructed to prepare, under the direction of the Committee on Construction and approval of the Counsel to the Corporation, proper agreements for effecting said settlement, and to transmit the same to the Board of Estimate and Apportionment for its approval.

Which resolution was unanimously adopted.

The Special Committee to which was referred the matter of by-laws for the government of the Engineer Corps of the Commission, presented the following report:

"NEW YORK, May 16, 1885.

To the Aqueduct Commissioners:

Gentlemen,—The Special Committee to whom was referred for consideration and report the By-Laws, report that they have met and fully considered the subject, and recommend the following amendments and additions:

1st. That Section 3, Article II., be amended by striking out the word 'Assistant' before the word 'Chief' in the first line, and substituting therefor the word 'Deputy.'

2d. That Section 2, Article III., be amended by erasing the words 'undertaken and constructed by the Commissioners,' and substituting the words 'of the new Aqueduct.'

3d. That Article IV. be amended by adding thereto another section to read as follows:

'SECTION 5. Leave of absence from the service of the Commission to any officer or employee with pay shall be granted only by the Commissioners. Leave of absence, without pay, may be granted by the Committee on Construction, the Secretary, the Chief, Deputy Chief or Construction Engineer, or by any Division Engineer, to any officer or employee under their respective charge.'

4th. That Article V., in regard to the Engineer Corps, shall read as follows:

'ARTICLE V.

Engineer Corps.

SECTION 1. The Engineer Corps of the Aqueduct Commissioners, its organization, and the officers and employees

thereof, shall be at all times subject to the general orders and directions of the Aqueduct Commissioners, and be governed by such rules and regulations as they may from time to time establish for the government of the Engineer Corps, and for the care of the property of the Commission; and all positions in said corps are held at the pleasure of said Commissioners.

SECTION 2. The Engineer Corps shall consist of the following officers and employees, whose relative rank shall be:

1. Chief Engineer and Consulting Engineer.
2. Deputy Chief Engineer.
3. Construction Engineer.
4. Division Engineers.
5. Assistant Engineers and Draughtsmen in the Draughting Department.
6. Transitmen.
7. Levelers.
8. Rodmen.
9. Chainmen.
10. Inspectors.
11. Janitors, Overseers and Messengers.
12. Watchmen, Drivers, Laborers and others in a subordinate capacity.

The Clerical Force.

1. Chief Clerk to the Chief Engineer.
2. Property Clerk.
3. Assistant Clerks.

SECTION 3. Duties of the Chief Engineer.

The Chief Engineer is the head and chief of the Engineer Corps, and his orders as such shall be observed and

obeyed by all in said corps. He is responsible directly to the Aqueduct Commissioners for the design and execution of all the engineering plans and construction work of the Commission. He must direct all surveys; supervise all construction work, monthly measurements and estimates; certify all estimates for payments on contract or other work; all bills and accounts for expenditures of the Engineer Corps; and perform such other duties incident to his office as shall be assigned to him by said Commissioners. He shall have the general custody of, and be accountable for, the property and premises of every kind in use by the Engineer Corps of the Commission. He shall have power to suspend any engineer or employee in the corps for cause, or whenever the services of such engineer or employee are no longer required for the work of the Commission, and shall immediately report to the Commissioners every such suspension, and his reasons therefor.

The Chief Engineer may report to the Committee on Construction any matter upon which he desires advice or direction, and said Committee is hereby authorized, in the exercise of their judgment, to counsel the Chief Engineer in the matter, or to report to the Commissioners the facts in the case, with such recommendations as it shall deem proper in the premises.

SECTION 4. Consulting Engineer.

The service and duties of this officer are comprised in the title thereof. The Chief and Deputy Chief Engineer shall from time to time give him full and needful information in regard to the condition and progress of the work of the Commission, and his judgment and opinion shall be sought and obtained upon all important plans, specifications, and matters pertaining to the work of the Commis-

sioners in all engineering matters or questions by the Commissioners, the Committee on Construction and the Chief Engineer. His office shall be in the office of the Aqueduct Commissioners in New York, and his duties shall be performed at the meetings of the Commissioners, or the Committee on Construction, and in consultation with the Chief Engineer, Deputy Chief and Construction Engineers at their respective offices or in the field, as shall be required from time to time by the Commissioners, the Committee on Construction or the Chief Engineer. As Consulting Engineer, he shall communicate directly and continuously from time to time with them or either of them in regard to the plans and preparation and the progress and execution of the work of the Commission, and he is authorized and requested to freely and fully report or express to them at all times his opinion and judgment in regard to the work and its plans and progress.

SECTION 5. Deputy Chief Engineer.

The Deputy Chief Engineer is the principal assistant of the Chief, and holds a confidential relationship with him, and under his directions attends to the preparation and execution of the work, and the details thereof, especially in regard to the formulation of all contracts and specifications in engineering work, and he shall have special charge of the offices of the Chief Engineer in the City of New York, and of the property therein, and of all maps and plans in the Draughting Department, which are hereby entrusted to his direct charge and supervision. In the absence of the Chief Engineer, or in case of his inability to act, he shall assume and perform the Chief Engineer's functions and duties under the title of "Acting Chief Engineer." He shall also act as such, in any special case,

when so directed and authorized by the Commissioners, or the Committee on Construction or the Chief Engineer.

SECTION 6. Construction Engineer.

The Construction Engineer is the executive officer of the Chief Engineer, in regard to the work of construction in the field, and is the immediate superior and director of the Division Engineers and their parties, and such other engineers and parties engaged in the Aqueduct work placed under his direction by the Chief Engineer. He receives from the Chief or Deputy Chief Engineer, from time to time, all plans, instructions and orders that are to be carried out and executed in the construction work, and is held responsible for their execution. His relations to the Chief are in many respects confidential, and he must communicate with him continuously, and in detail, at all times in regard to the condition and progress of the work in his charge. He is hereby authorized and may suspend for cause any officer or employee of the engineer corps under his command, reporting such suspension and the facts and causes thereof immediately to the Chief Engineer. He shall have charge of the headquarters of the Engineer Corps at Tarrytown, and the officers and employees attached thereto, and the property and premises thereof, and his office shall be at said headquarters, and his duties shall be performed there, in the field, and on the line of the Aqueduct, as required by the Chief Engineer, the Committee on Construction or the Commissioners.'

The Committee further report that in case the amendments and additions to the By-Laws reported by them shall be approved and adopted, the Committee recommend that the following resolution shall be adopted:

Resolved, That the Chief Engineer is hereby requested to frame and report to the Aqueduct Commissioners, for their consideration and adoption, suitable and necessary rules and regulations for the government of the Engineer Corps, and for the care of the property of the Commission.

Respectfully,

JAMES C. SPENCER,
C. C. BALDWIN,
ROLLIN M. SQUIRE,
WILLIAM DOWD,
} *Committee.*"

Commissioner SPENCER then moved the adoption of the amendments recommended by the Committee, and of "Article V." of By-Laws, as set forth in said report; which motion was adopted by the affirmative vote of all of the Commissioners.

Commissioner BALDWIN next moved the adoption of the resolution recommended by said Committee, viz.:

Resolved, That the Chief Engineer is hereby requested to frame and report to the Aqueduct Commissioners, for their consideration and adoption, suitable and necessary rules and regulations for the government of the Engineer Corps, and for the care of the property of the Commission.

The motion was adopted, and the Secretary was directed to prepare for printing a correct draft of the By-Laws as now amended and adopted.

In obedience to directions of the Commissioners at their meeeting of the 13th inst., the Secretary submitted a draft of resolutions for the formal adoption of the plans

for the new gate-house at Croton Dam; which resolutions were read, and Commissioner SPENCER moved their adoption, as follows:

Whereas, The Commissioner of Public Works prepared and submitted to us on the 8th day of October, 1884, a general plan for the location and construction of a new gate-house at Croton Dam, in Westchester County, which plan was approved and adopted by us on the same day, and designated by us "Final Plan Sheet No. 12," and filed in this office, and a copy thereof filed in the Department of Public Works; and

Whereas, The Chief Engineer of this Commission, under our direction, has since prepared and submitted to us fourteen detail plans, numbered respectively "Plans Nos. 32, 33, 34, 34½, and 35 to 44, inclusive, for the construction of said gate-house, its connections and by-pass to Croton Dam, which plans were informally approved by us on the 13th day of May, 1885; therefore be it

Resolved, That the plans above described be and the same are hereby approved and adopted by us as the plans for the construction of said gate-house, its connections, by-pass and other appurtenances; subject, however, to such modifications as we may hereafter deem necessary for the more efficient carrying out of the provisions of Chapter 490 of the Laws of 1883 of the State of New York, and that said plans be placed upon file in this office.

Resolved, That the Secretary is hereby directed to transmit immediately to the Commissioner of Public Works

copies of the above-named plans, with the request that he forthwith prepare and submit to us for our approval, as required by Section 25 of the aforesaid act, a form of contract, specifications and bond for the doing of the work, and the furnishing of the material required to be done and furnished by the said approved plans.

The resolutions were adopted by the affirmative vote of all of the Commissioners.

Commissioner SPENCER then offered the following resolution:

Whereas, The advancement of the work of construction on the new Aqueduct will soon require the selection and appointment of Inspectors over the work of the contractors, and as the law requires that no person shall be appointed as Inspector unless certified by at least three of the Commissioners to be competent and fit for the duties of the position; therefore

Resolved, That the Committee on Construction, and the Chairman of the Finance Committee consider the question of the standard of qualification for the office of Inspector, and the rate of compensation, and the number to be employed at each shaft or heading, and report their views and conclusions to this Commission for its consideration.

The resolution was adopted.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS

Held at their Office, No. 209 Stewart Building, Wednesday, May 27, 1885, at 3 o'clock P. M.

Commissioners present:

The Comptroller.
Commissioner of Public Works.
Commissioners JAMES C. SPENCER, WILLIAM DOWD and C. C. BALDWIN.

Also Chief Engineer Church, Deputy Chief Engineer Fteley and Consulting Engineer Davis; also Chief Engineer Birdsall of the Department of Public Works.

Vice-President DOWD presided.

The minutes of the Stated Meeting of May 20th were read and approved.

The Committee of Finance and Audit reported the examination and audit of bills included in vouchers Nos. 773

to 785, and on motion of Commissioner BALDWIN, the said vouchers were approved by the Commissioners and ordered certified to the Comptroller for payment.

The Committee on Construction made report, dated May 25, 1885, as follows:

1st. In relation to a renewed request of O'Brien & Clark, contractors, for an additional shaft on Section 9 of the new Aqueduct, south of the portal at South Yonkers Cut.

In connection with this matter, Commissioner Spencer called for the reading of a communication since received from said contractors, asking for another additional shaft between Shafts 16 and 17, on Section 8. The communication was read, and on motion of Commissioner SPENCER, the subject of these additional shafts was referred back to the Committee on Construction for further investigation and report.

2d. Upon the communication of the Chief Engineer of the 20th inst., in relation to delaying the construction of the masonry invert in some portions of the Aqueduct tunnel, the Committee recommended "that full discretion be given to the Chief Engineer to grant permission—as provided for in Section 31 of the specifications for the tunnel masonry of the Aqueduct—to delay the construction of the invert where in his opinion such delay will be to the advantage of, or not detrimental to, the work, and to report to the Commissioners from time to time to what extent such permission is granted."

On motion of Commissioner SPENCER, this recommendation was approved and adopted by the Commissioners.

A communication was received from the Commissioner of Public Works, dated May 23, 1885, giving notice of the receipt and filing in his department of the certified copy of "Final Plan Sheet No. 14, for the modification of the grade of the new Aqueduct and location of shafts for its construction, between a point near Shaft No. 24, at Sedgwick avenue, on the easterly side of the Harlem River, and a point in Convent avenue near One Hundred and Thirty-fifth street, in the city"—approved by the Commissioners, May 13, 1885—which communication was read and ordered placed upon file.

Notice was received from the Comptroller, dated May 23, 1885, of the issue of a warrant for voucher not certified by the Aqueduct Commissioners, and appertaining to the work of the Commissioners of Appraisal for New York City and County, amounting to $200, which notice was ordered placed upon file, and proper entry thereof made upon the books of this Commission.

The Chief Engineer presented a report of this date, with accompanying documents, in relation to the vacation of that part of the present Sleepy Hollow road at the Pocantico Blow-off, and the construction of a new road at that place.

On motion of Commissioner SPENCER, this matter was referred to the Committee on Construction for consideration and consultation with the Counsel to the Corporation.

A communication was received from Clark & O'Brien in relation to obtaining facilities for stringing wires for

electric lights, which was read, and on motion of the COMPTROLLER was referred to the Committee on Construction, with power.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS

Held at their Office, No. 209 Stewart Building, Wednesday, June 3, 1885, at 3 o'clock P. M.

Commissioners present:
The Mayor.
The Comptroller.
Commissioner of Public Works.
Commissioners JAMES C. SPENCER, WILLIAM DOWD and C. C. BALDWIN.

Also Deputy Chief Engineer Fteley and Consulting Engineer Davis; also Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works.

The minutes of the Stated Meeting of May 27th were read and approved.

The Committee of Finance and Audit reported the examination and audit of bills included in vouchers Nos. 791 to 799, which vouchers, on motion of Commissioner DOWD, were approved by the Commissioners and ordered certified to the Comptroller for payment.

The Committee also reported that they had authorized the sale by the Secretary, at $10 each, of thirty copies of the plans for the new gate-house at Croton Dam, he to account therefor to this Committee.

The Committee on Construction made report, dated June 1st, with recommendations, which were acted upon as follows:

1st. In relation to the vacation of the present Sleepy Hollow road, and construction of a new highway at the Pocantico Blow-off of the new Aqueduct, which was referred to the Committee on the 27th ulto., the Committee recommended that an agreement be immediately made between the Trustees of the Village of North Tarrytown and the Aqueduct Commissioners, for the construction of a new highway by the Commissioners and the surrender of the old road by the said trustees.

On motion of Commissioner SPENCER, this recommendation was approved by the Commissioners, and the Secretary was directed to prepare and submit a form of agreement to be made with said trustees under the provisions of Section 23 of the act.

2d. In relation to the request of Clark & O'Brien that the Aqueduct Commissioners obtain for them permission to string wires upon the poles of the old Aqueduct Telegraph Line, for the purpose of facilitating the use of electric lights in the new Aqueduct tunnel work; the Committee reported that they were of the opinion that the Commissioners should not comply with said request, in which opinion the Commissioners concurred.

3d. Upon request of the Chief Engineer for authority to expend the sum of $500 for monumenting the line of the new Aqueduct on Manhattan Island, the Committee recommended that the expenditure be authorized; and on motion of Commissioner SPENCER, the Chief Engineer was authorized to make the expenditure within the limit above named.

4th. The Committee submitted a requisition of the Chief Engineer for thirty-six additional suits of india-rubber clothing for the use of the engineers upon the line of the new Aqueduct, estimated to cost about $187 for the lot, with a recommendation that the purchase of the suits be authorized.

This recommendation was approved by the Commissioners.

The Special Committee, appointed May 20, 1885, to consider and report upon a standard of qualification and rate of compensation for inspectors, made report thereon as follows:

"NEW YORK, June 1, 1885.

To the Aqueduct Commissioners:

Gentlemen,—The Special Committee to which was referred the 'question of the standard of qualification for the office of Inspector, and the rate of compensation and number to be employed at each shaft or heading,' make the following report and recommendations.

The Committee have received a report upon this subject from the Chief Engineer, dated May 25, 1885, which is herewith submitted, and to which reference is made; and we now recommend the following 'Standard' and 'Rules'

for the selection and appointment of Inspectors upon the new Aqueduct work:

STANDARD.

Appointments of Inspectors shall be made only of persons included in the following three classes:

Class A.—Civil engineers of integrity and experienced in masonry construction.

Class B.—Men of integrity and experience who have made masonry inspection a specialty.

Class C.—Skilled stone-cutters and masons of integrity and experience, who, upon examination, show an aptitude for the duties of an Inspector.

RULES.

Every application for the position of Inspector shall be made upon the forms prescribed and furnished by this Commission, and in the following manner, viz.:

1st. The applicant shall state under which of the three classes he applies.

2d. He shall make, under oath, a statement of facts regarding himself, which shall include his full name, present residence, age; whether married or unmarried, present condition of health, and whether now or at any time heretofore subject to any malady which might impair his efficiency, the nature and extent of his use of intoxicating liquor, his present occupation, his past employment and experience, especially in the subject matter of the class under which he applies; and his freedom from relationship

or connection with contractors, and pecuniary interest in their work or profits. The discovery of any misrepresentation or suppression of fact which will impair or defeat the true intent and requirement of this 'statement of facts,' shall cause the rejection of the application or the immediate discharge of the Inspector, should such discovery be made after his appointment.

3d. Each application must be accompanied by the affidavits of two or more reputable citizens, testifying to the extent of their knowledge of the former occupation of the applicant, his character for sobriety, industry, integrity, experience in the class under which he applies, and his competency for the duties of an inspector; and that the affiant has no pecuniary interest in the work upon the new Aqueduct, dams or reservoirs, or in the appointment of the applicant.

4th. Each application must be delivered to the Secretary of the Commission, who shall make full record thereof and place it upon file.

5th. When such application is transmitted by the Commissioners to the Chief Engineer, he and such other engineers as he may call to his aid shall, as soon as practicable after receipt thereof, make a thorough examination of the applicant as to his experience and competency; and if, in the opinion of said Chief Engineer, the applicant is competent to perform the duties of the office of Inspector, and is in all other respects a suitable person for the position, he shall certify his approval upon the application, and return it to the Secretary of the Commissioners.

And if, in the opinion of the Chief Engineer, the applicant is incompetent, or an unsuitable person for the posi-

tion of Inspector, he shall make endorsement of his disapproval upon the application, and return it also to the Secretary of the Commissioners.

6th. Upon the return of each application by the Chief Engineer, the Secretary shall make record of its approval or disapproval by the Chief Engineer, and place the application upon file in the office of the Commissioners.

7th. Appointments of Inspectors shall only be made from the 'approved' applicants, and be made from time to time as the progress of the work requires; and each Inspector shall be assigned by the Chief Engineer to the duty for which, in his opinion, said Inspector is best qualified.

With regard to the compensation of the Inspectors, we recommend that those who are employed upon ordinary masonry or surface work be paid at the rate of four dollars per day, and that those who are employed upon special masonry work on the surface or on work in tunnel be paid at the rate of five dollars per day.

With regard to the number of Inspectors to be appointed, the Committee are unable to reach a definite conclusion, for the reason that the number must necessarily be controlled by the time and manner in which the different contractors carry on their work at the various points of construction, and by the circumstances which will develop as the work progresses. Therefore we make no recommendation upon the subject, other than that the Chief Engineer be directed to report to you from time to time, and as far in advance as practicable, the number of inspectors required for the proper and efficient inspection of the progressing work.

We have prepared, and herewith submit for your con-

sideration, forms of the application, statement of facts, and accompanying affidavits, called for by the aforegoing rules, and recommend that upon their adoption the Secretary be directed to have them printed in proper form, with any necessary foot-notes explaining the proper manner of filling the blanks therein, and that he give notice to those who have already applied for the position of Inspector to renew their applications in the manner now required.

Respectfully,

WILLIAM DOWD,
JAMES C. SPENCER,
C. C. BALDWIN,
ROLLIN M. SQUIRE,
} *Committee.*"

The Commissioners approved the above recommendations of the Committee, and on motion of Commissioner SPENCER, the "Standard" and "Rules" for the selection and appointment of inspectors were adopted unanimously; and the compensation of inspectors was fixed at the rate of $4 and $5 per day, as classified in said report; and the Secretary was directed to have printed one thousand copies of the forms, and to give the notice to applicants, as recommended in said report.

The COMPTROLLER gave notice, under date of May 29, 1885, of issue of warrants not certified by the Aqueduct Commissioners, and appertaining to the work of the Commissioners of Appraisal for New York County and for Westchester County, and amounting to $777.60; which was ordered to be filed and entered upon the books of this Commission.

The Deputy Chief Engineer reported, verbally, that the specifications for the new gate-house at Croton Dam were

now completed, and after conference with the engineers of the Department of Public Works, would be ready for submission to the Commissioners at their next regular meeting.

The Auditor reported a deficiency in the appropriation of October 1, 1884, for erection of testing apparatus at Tarrytown; and on motion of the COMPTROLLER the following resolution was adopted:

Resolved, That an additional appropriation of nineteen $\frac{23}{100}$ dollars be made for the erection of an apparatus for testing steel tapes at Tarrytown.

Commissioner DOWD moved a reconsideration of the action of the Commissioners at their meeting of May 20th, in relation to the allowance to Division Engineer Wolbrecht of the Third Division of keep for his horse; which motion was adopted by a majority vote, Commissioner Baldwin voting in the negative. The matter was then referred back to the Committee on Construction for further investigation and report.

The MAYOR presented a communication received by him from the Bricklayers' and other trades unions recommending a number of persons for appointment as inspectors; which was ordered placed upon the file of applicants, and the Secretary directed to send forms of application, etc., to each of the persons named in said communication.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 209 Stewart Building, Wednesday, June 10, 1885, at 3 o'clock P. M.

Commissioners present:

The Mayor.
The Comptroller.
Commissioner of Public Works.
Commissioners JAMES C. SPENCER, WILLIAM DOWD and C. C. BALDWIN.

Also Acting Chief Engineer Fteley, Consulting Engineer Davis, and Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works.

The minutes of the Stated Meeting of June 3d were read and approved.

The Committee of Finance and Audit reported the examination and audit of the fifth monthly estimates of work done by contractors included in vouchers Nos. 800 to 809, and of the bills included in vouchers Nos. 810 to 820, all

of which were approved by the Board and ordered certified to the Comptroller for payment.

The Committee on Construction made report, dated the 8th inst., with recommendations as follows:

1st. The Committee submitted requests from the Chief Engineer for authority to purchase the necessary furniture for the auxiliary officers of the Engineers of the Second, Third and Fifth Divisions, at a cost not to exceed $108, and for the purchase of 8,000 copies of standard diagrams for recording the cross-section measurements in the Aqueduct tunnel, at a cost not to exceed $275, with recommendations that both requests be granted; which recommendations were approved by the Commissioners, and authority given the Chief Engineer to make the purchases within the limits of cost named.

2d. The Committee reported that having been informed by the Chief Engineer that two inspectors of masonry were now required on some portions of the Aqueduct work, and applications in due form having been received from Philanzo Edick and George B. Burbank, who appear to be qualified for the work, the Committee had directed the Chief Engineer to examine said applicants, as required by the rules, and to report upon them to the Board at this meeting.

3d. The Committee reported that they had made further investigation of the matter of an allowance to Division Engineer Wolbrecht, of keep for his horse whilst necessarily in use by him upon the work of the Commission, and that they saw no reason to recall their recommendation of May 20th that such allowance be made, and therefore adhered to the said recommendation.

Commissioner BALDWIN moved that the recommendation of the Committee be approved by the Commissioners, which motion was seconded by Commissioner SPENCER.

Commissioner DOWD moved to amend, by requiring that such allowance be made only when the horse is kept in the stables of the Commission. This motion was not seconded.

The motion of Commissioner Baldwin was then adopted by a majority vote, Commissioner Dowd voting in the negative.

The Committee on Construction next submitted a communication from Acting Chief Engineer Fteley of this date, describing the lands necessary to be taken in fee and for the easement rights required for the construction of the new Aqueduct on Manhattan Island, as follows:

1st. A width of 100 feet, to be taken in fee, from Tenth avenue to Harlem River; also a certain amount of land, as proposed by the Commissioner of Public Works, to the United States bulkhead line.

2d. Four lots, 25 feet x 100 feet, or thereabouts, to be taken in fee, at the southeast corner of Tenth avenue and One Hundred and Sixty-sixth street, for the working plant of Shaft No. 28.

3d. Four lots, 25 feet x 100 feet, or thereabouts, to be taken in fee at the southeast corner of Tenth avenue and One Hundred and Fifty-seventh street, for the working of Shaft No. 29.

4th. A width of 50 feet to be procured as a permanent easement on the reverse curve from Tenth avenue to Convent avenue, and vicinity of said curve.

5th. I understand from the Secretary that sufficient ground can be obtained from the adjoining owners for the working of Shaft No. 27.

6th. I understand also, from the Chief Engineer of the Department of Public Works, that for the working of Shafts Nos. 30, 31 and 32, the adjoining streets can be opened, thus giving sufficient room for the operations of the contractors, without taking any land from private parties.

In relation to which the Committee recommended "that the Commissioner of Public Works be requested to include on the property maps the lands described in the first four clauses of the above report as necessary to be taken in fee, or for easement in perpetuity; and that in regard to the lands required for Shafts Nos. 30, 31 and 32, the Committee on Construction be directed to ascertain whether the streets upon which those shafts would be located can be opened and placed at the disposal of the Commission within the required time, and if so, to give the necessary directions with regard thereto for the preparation of the said property maps."

These recommendations were approved by the Commissioners, and notice thereof directed to be given to the Commissioner of Public Works.

A communication was received from the Commissioner of Public Works, dated June 10, 1885, submitting forms of contract, specifications and bond for building the new gate-house and Section 1 of the new Croton Aqueduct, at Croton Dam; subject to an additional clause necessary to

fully protect the present Aqueduct and its appurtenances while the new work is under construction.

On motion of the COMMISSIONER OF PUBLIC WORKS, the above forms were referred to a Special Committee, composed of the members of the Committee on Construction and Commissioner Dowd, for consideration, and report thereon to the Commissioners at as early a day as practicable; and the Secretary was directed to have copies of said forms prepared immediately for the use of said Committee.

The COMPTROLLER gave notice, under date of June 6th, of the issue of a warrant for voucher not certified by the Aqueduct Commissioners, and appertaining to the work of the Commissioners of Appraisal for New York County, amounting to $59.19; which communication was ordered placed upon file and entered upon the books of this Commission.

The Secretary submitted an abstract of balance of accounts ending May 31, 1885, as shown by the books of the Commission; which, on motion of the COMPTROLLER, was referred to the Committee of Finance and Audit for consideration and such report as they may deem necessary.

Acting Chief Engineer Fteley presented a communication, dated this day, with an estimate of the probable cost and time of completion of the new gate-house and its appurtenances at Croton Dam; which, on motion of Commissioner SPENCER, was referred to the Special Committee to which was referred the forms of contract, etc., for con-

structing said gate-house, this day submitted by the Commissioner of Public Works.

The Acting Chief Engineer, in accordance with his instructions from the Committee on Construction, then presented the applications of Philanzo Edick and George B. Burbank for Inspectors of Masonry, both applicants having been examined by him and approved.

Commissioners Baldwin, Dowd and Spencer then endorsed upon the application of George B. Burbank their certificate of his competency and experience, as required by Section 40 of the act, and Mr. Burbank was thereupon appointed by the Commissioners an Inspector of Masonry, at the rate of compensation heretofore fixed by the Commissioners.

The application of Mr. Edick was laid over for further consideration.

On motion of Commissioner DOWD, the Committee on Construction were requested to examine all applications for inspectorships, as the same are received, and to forward those made, in compliance with the established rules, to the Chief Engineer for examination of the applicant, and after the applicant has been examined and approved by the Chief Engineer, to certify, as required by Section 40 of the act, to the competency and experience of such applicants as are, in their opinion, duly qualified for the position.

A request was made by the stenographer George Lucas, a member of the Seventh Regiment, N. G. S. N. Y., for

leave of absence, with pay, during the week ending June 27th, to attend the State Camp at Peekskill with his regiment.

On motion of Commissioner SPENCER, the leave of absence was granted.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 209 Stewart Building, Wednesday, June 17, 1885, at 3 o'clock P. M.

Commissioners present:

The Mayor.
The Comptroller.
Commissioner of Public Works.
Commissioners JAMES C. SPENCER, WILLIAM DOWD and C. C. BALDWIN.

Also Acting Chief Engineer Fteley, Consulting Engineer Davis, and Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works.

The minutes of the Stated Meeting of June 10th were read and approved.

The Committee of Finance and Audit reported the examination and audit of bills included in vouchers Nos. 821 to 844, which vouchers, on motion of Commissioner DOWD, were approved by the Commissioners and ordered certified to the Comptroller for payment.

The Committee on Construction made report, dated June 15th, in relation to the lands required at or near Shafts Nos 30, 31 and 32, and their direction to have certain parcels which will hereafter be included in the streets to be opened, described upon the property maps as parcels upon which an easement in perpetuity is required.

This action was approved by the Commissioners.

The Committee on Construction also made report of this date, with recommendations:

1st. In relation to the insufficiency of the appropriation for moving the Welger House at the Pocantico Blow-off, and a proposition from the contractors for its use, by which an auxiliary office at that place could be obtained at a net cost to the Commission of not over $450.

On motion of Commissioner SPENCER, the matter was referred back to the Committee on Construction, with power.

2d. The examination and approval by the Committee and by the Chief Engineer of the applications of Philanzo Edick and James H. Maloney for the position of Inspector.

Commissioner SPENCER moved that Philanzo Edick be appointed Inspector, which motion was lost.

Commissioner BALDWIN moved that James H. Maloney be appointed Inspector, which motion was carried unanimously and Mr. Maloney appointed an Inspector of Masonry, with compensation at the rate established by the Commission.

The Special Committee, to which was referred the forms of contract, specifications and bond for the construction of Section No. 1 and the gate-house at Croton Dam received from the Commissioner of Public Works on the 10th inst., made a verbal report approving said forms, including an additional clause framed by the Chief Engineers of the Department of Public Works and this Commission, with the approval of the Commissioner of Public Works, to more fully protect the present Aqueduct during the construction of the new one.

On motion of Commissioner SPENCER, the said forms were then approved by the affirmative vote of all the Commissioners, and the Secretary was directed to submit said forms to the Counsel to the Corporation for his approval.

A communication of this date was received from the Commissioner of Public Works, submitting property map No. 1 of the various parcels of real estate on, over or through which the new Aqueduct and its appurtenances are to be constructed and maintained, from the east side of the Harlem River to One Hundred and Thirty-fifth street and Convent avenue in the City of New York, and by him designated "Exhibit CC."

On motion of Commissioner DOWD, it was unanimously

Resolved, That the above described property map, this day submitted to us by the Commissioner of Public Works, in accordance with Section 4, Chapter 490 of the Laws of 1883, be and the same is hereby approved by us; and the Secretary is hereby directed, when said

map has been duly certified by us, to deliver it to the Counsel to the Corporation, with the request that he cause it to be filed in the office of the Register of the City and County of New York, as required by Section 5 of the aforesaid act, and to notify us of the date of said filing.

The COMPTROLLER, under date of the 13th inst., gave notice of the issue of warrant for voucher not certified by the Aqueduct Commissioners, and appertaining to the Commissioners of Appraisal for New York County, amounting to $929.12; which was ordered placed on file and entered upon the books of this Commission.

The Secretary presented a form of certificate, prepared with advice of the Counsel to the Corporation, for endorsement upon approved applications for the position of inspector, as required by Section 40 of the Aqueduct law; which form was approved by the Commissioners and adopted for all future certifications.

Mr. Fordham Morris, as counsel for James V. Lawrence, presented a claim for supplies furnished the engineers of the Department of Public Works, and asked that it be certified to the Comptroller for payment by the Aqueduct Commissioners.

On motion of Commissioner SPENCER, the matter was referred to the Committee of Finance and Audit for investigation and report.

On motion of Commissioner SPENCER, Rule 3, adopted by the Commissioners for the selection of inspectors, was

referred to the Committee on Construction to consider and report what, if any, change in said rule should be made.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 209 Stewart Building, Wednesday, June 24, 1885, at 3 o'clock P. M.

Commissioners present:

The Comptroller.
Commissioner of Public Works.
Commissioners JAMES C. SPENCER, WILLIAM DOWD and C. C. BALDWIN.
Also *Deputy Chief Engineer* FTELEY and *Chief Engineer* BIRDSALL of the Department of Public Works.

Vice-President DOWD presided.

The minutes of the Stated Meeting of June 17th were read and approved.

The Committee of Finance and Audit reported the examination and audit of bills included in vouchers Nos. 845 to 851, which vouchers were, on motion of Commissioner BALDWIN, approved by the Commissioners and ordered certified to the Comptroller for payment.

The Committee next made report upon the claim of James V. Lawrence for supplies alleged to have been furnished the engineers of the Department of Public Works engaged upon the surveys for the new Aqueduct, presented by Fordham Morris, Esq., as counsel, and referred to them at the last meeting, and recommended that the Commissioners decline to certify said claim for payment for reasons stated in said report.

In this recommendation the Commissioners concurred, and directed the Secretary to notify Mr. Fordham Morris thereof.

The Committee on Construction made reports dated June 22d, as follows:

FIRST.—In relation to an additional shaft to be sunk between Shafts Nos. 15 and 16 on Section 8 the Committee made report, accompanied by a form of agreement for the required land, and an opinion of the Counsel to the Corporation upon the legality of such agreement, and recommended that the shaft be authorized and provided for, on conditions stated in the report.

Commissioner DOWD presented a letter from the Mayor, suggesting adverse contingencies connected with the sinking of the proposed additional shaft, and requesting that action on the matter be deferred until he could be present.

On motion of the COMPTROLLER, action upon the report was deferred until the next meeting.

SECOND.—The Committee submitted communications

received by them from the Chief Engineer, upon which they made recommendations as follows:

1st. That authority be given to purchase a pair of horses for the use of the Chief Engineer, at a cost not to exceed $500. This recommendation was approved by the Commissioners, and the purchase authorized within the above limit.

2d. The Committee reported the completion of an arrangement with Brown, Howard & Co., contractors, for the use of the Welger House, at Pocantico Blow-off, during the construction of the new Aqueduct at that place, and the receipt from them of the sum of $150 therefor; also the direction of the Committee to the Chief Engineer to have an auxiliary office constructed at that place at a cost not exceeding $600.

This action was approved by the Commissioners, and the Secretary presented a receipt from the Finance Department for the money, which was ordered placed on file and entered upon the books of the Commission.

3d. The Chief Engineer having reported the granting of leave of absence to certain engineers, and requests for similar leave from others of his corps, the Committee reported their approval of the action of the Chief Engineer, and recommended that in view of the custom of all the public departments of the city to grant limited leave of absence to faithful employees during some portion of the year, the Chief Engineer be authorized to grant to the engineers and employees in his department leave of absence, with pay, for not exceeding an aggregate of two weeks in any one year; said leave to be granted at his discretion, having due regard to the requirements of the

work of the Commission; and that the Secretary be given similar authority with regard to the employees in his department.

These recommendations were approved by the Commissioners, and the Chief Engineer and Secretary authorized to grant leave of absence as above stated.

THIRD.—The Committee reported upon a change in the line of the new Aqueduct through Central Park, as proposed by the Commissioners of Public Parks, submitting with their report the Chief Engineer's report and estimate of the additional cost of said route.

Commissioner BALDWIN moved that action upon the matter be deferred, and that the Commissioners of Public Parks be invited and requested to meet the Aqueduct Commissioners for conference upon this subject on Wednesday next, July 1st, at 4 o'clock P. M.; which motion was adopted unanimously.

FOURTH.—The Committee submitted an amended form of Rule 3 for the selection and appointment of Inspectors; which, on motion of the COMPTROLLER, was laid over for further consideration.

The COMPTROLLER, under date of the 20th inst., gave notice of the issue of warrants for vouchers not certified by the Aqueduct Commissioners, and appertaining to the work of the Commissioners of Appraisal for the City and County of New York, and of Westchester County, amounting in all to $7,930.34; which notice was ordered placed upon file and entered upon the books of this Commission.

The Chief Engineer made report, of this date, of the suspension by him of Richard Vredenburg, night watchman, and George Wilson, fourth helper on drill CC, and his reasons therefor. On motion of Commissioner DOWD, the suspension of said persons by the Chief Engineer was approved, and they were dismissed from employment in the Commission, said dismissal to date from the time of their suspension.

The Commissioners being informed that the Counsel to the Corporation was of the opinion that instead of an easement in perpetuity upon lands required for Shaft No. 30 in One Hundred and Forty-ninth street, and designated "Parcel 44" on the property map approved and adopted by the Commissioners on the 17th inst., and for lands in Convent avenue between One Hundred and Thirty-fifth and One Hundred and Thirty-seventh streets, near Shaft 32, and designated on said property map "Parcel No. 70," the said lands should be taken "in fee."

Commissioner SPENCER offered the following resolution:

Resolved, That the Commissioner of Public Works be and he is hereby authorized and requested to amend, before its filing, the property map submitted to us by him on the 17th of June, 1885, and marked Exhibit CC, and by us approved and certified on the same day, by including in the parcels thereon described as lands to be taken in fee for the construction of the new Aqueduct and its appurtenances, Parcel No. 44 in One Hundred and Forty-ninth street, and Parcel No. 70 in Convent avenue between One Hundred and Thirty-fifth and One Hundred and Thirty-seventh streets, as said parcels are shown upon said map; and

to delineate said parcels on said map as lands to be taken "in fee," instead of lands upon which an easement in perpetuity is to be acquired.

This resolution was adopted by the affirmative vote of all the Commissioners present.

A communication, dated this day, was received from the Counsel to the Corporation, returning the form of contract, specifications and bond for constructing Section No. 1 of the new Aqueduct, and advising the addition of certain clauses to paragraph H in relation to extra work.

The communication was read, and Commissioner DOWD moved that said forms be amended in accordance with the advice of the Counsel to the Corporation, by including therein the clauses recommended by him, upon which motion the vote was:

Affirmative—The Comptroller and Commissioner Dowd.
Negative—Commissioner of Public Works, and Commissioners Spencer and Baldwin.

On motion of Commissioner SPENCER, the time and place for the opening of bids for constructing said Section No. 1 of the new Aqueduct was fixed as Wednesday, July 29, 1885, at 2 o'clock P. M., at this office; and the length of time and designation of the newspapers for the advertisement of the letting, as required by Section 26 of the act, was referred to the Committee on Construction, with power.

On motion of Commissioner SPENCER, the Secretary was directed to prepare the necessary form of bid for said section, in accordance with the form and requirements

for bids heretofore approved by the Commissioners, and to have 250 copies thereof printed.

A communication was presented by Fordham Morris, Esq., in relation to the alleged imperfect guarding of the highway near Shaft No. 22 in the Twenty-fourth Ward; which was read, and on motion of Commissioner DOWD, was referred to the Chief Engineer for investigation and report.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 209 Stewart Building, Wednesday, July 1, 1885, at 3 o'clock P. M.

Commissioners present:

The Mayor.
Commissioner of Public Works.
Commissioners JAMES C. SPENCER, WILLIAM DOWD and C. C. BALDWIN.

Also E. Henry Lacombe, Esq., Counsel to the Corporation; Chief Engineer Church, Deputy Chief Engineer Fteley and Consulting Engineer Davis; also Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works.

The minutes of the Stated Meeting of the 24th ulto. were read and approved.

The Committee of Finance and Audit reported the examination and audit of bills included in vouchers Nos. 858 to 879, which vouchers, on motion of Commissioner DOWD,

were approved by the Commissioners and ordered certified to the Comptroller for payment.

The Committee on Construction made detailed report, dated June 29th, upon the present condition and progress of the work upon the new Aqueduct, which was read and ordered placed upon file.

The Committee next made report upon communications received by them from the Chief Engineer, with recommendations as follows:

1st. In relation to granting to Assistant Engineer Moore, of the Second Division, a leave of absence for three weeks instead of the two weeks heretofore authorized, by reason of his ill health and overwork; the Committee recommend that leave of absence, with pay, be granted to Mr. Moore for three weeks, which recommendation the Commissioners approved.

2d. A request for authority to employ, temporarily, six laborers for making examinations to obtain information as to the nature of the ground for the location of the proposed new Reservoir in the Twenty-fourth Ward of the city, which the Committee recommended be granted, and the employment of said laborers was authorized by the Commissioners.

3d. A request for authority to purchase a double desk and desk furniture and six chairs, for use by the Chief and Deputy Chief Engineer at the Tarrytown headquarter offices, at a cost of not exceeding $100. The Committee recommended that the purchase be authorized within the limit above named, and the Commissioners so ordered.

4th. With regard to the importance of procuring land for an additional shaft south of the Cut at South Yonkers, in which the Committee coincide with the Chief Engineer and recommend its speedy procurement.

The Committee then called for the reading of two letters received from the Counsel to the Corporation, and dated June 25th and 26th, in relation to certain clauses to be inserted in the forms of contract, specifications and bond for constructing Section No. 1 of the new Aqueduct, and without one of which he could not approve said forms. The letters were read, and Commissioner SPENCER moved that the clause deemed essential by the Counsel to the Corporation be inserted in said forms, to read as follows:

"The aggregate price to be paid for extra work authorized or ordered under and by virtue of the foregoing provisions of this contract, shall not exceed the sum of five thousand dollars on any one order."

The motion was adopted unanimously.

Commissioner SPENCER next moved that the second clause recommended by the Counsel to the Corporation be amended by changing the limitation, as to time, from thirty days to sixty days, and that the clause so amended be inserted in said forms, to read as follows:

"All claims for extra work shall be made to the Engineer, in writing, within sixty days after its completion; and failing to make such claim within the time required, all rights of the contractor to extra pay for such work shall be forfeited."

The motion was also adopted unanimously, and the Secretary ordered to have said two clauses inserted in said

forms, and to submit said forms, so amended, to the Counsel to the Corporation for approval.

Notice was received from the Comptroller, dated June 27, of the issue of warrants for vouchers not certified by the Aqueduct Commissioners, and appertaining to the work of the Commissioners of Appraisal for Westchester County, and amounting to $4,622.32; which was ordered placed on file and entered upon the books of this Commission.

The Chief Engineer reported (verbally) that he had again conferred with Jerry Mahoney, the owner of lands at the Pocantico Blow-off, but was as yet unable to agree with him for the purchase or use of said land.

On motion of Commissioner SPENCER, the matter was left in charge of the Chief Engineer, with power to agree with said Mahoney for the purchase of said lands at a cost not to exceed $2,000.

The matter of an additional shaft between Shafts Nos. 15 and 16 on Section 8, which was laid over at the last meeting of the Commissioners, was then taken up and discussed with the Counsel to the Corporation; whereupon the Secretary was directed to procure from said Counsel to the Corporation his written opinion upon the following points in relation to said additional shaft, viz.:

1st. Would the granting of the request of the contractors for sinking said additional shaft operate as a barrier against the time clause in the present contract, or can a supplementary contract or agreement for sinking said shaft be made without invalidating, or in any way im-

pairing the validity of any of the provisions of, said existing contract ?

2d. Does the provision in the last clause of Section 33 of the act authorizing the Commissioners to procure certain work done without contract, provided it "does not involve an expenditure of over five thousand dollars," require that within that limit shall be included all claims for damage to property of adjacent owners arising from the doing of said work, or does the limitation apply to the value of the work alone, irrespective of such consequential damages ?

Further consideration of the matter was then deferred until the opinion of the Counsel to the Corporation is received.

The Commissioners next considered the report of the Committee on Construction, dated June 22d, in relation to the proposed change of the line of the new Aqueduct in Central Park, which was laid over from the last meeting.

A letter was received from the President of the Department of Public Parks in relation to the matter, and was read.

Commissioner Beekman of the Department of Public Parks being present, expressed to the Aqueduct Commissioners his views upon the two routes proposed for said Aqueduct; and the following resolution was then offered, viz.:

Resolved, That in view of the extensive damage that would be inflicted upon the grounds of the Central Park by the construction of the new Aqueduct through said park upon the line shown on the gen-

eral plan submitted to us by the Commissioner of Public Works on the 14th of January, 1885 (to replace Exhibit P, of February, 1884), the said Commissioner of Public Works be and he is hereby requested to prepare and submit to us a modification of said general plan, by which the line of said new Aqueduct shall be extended from One Hundred and First street southwardly along the Eighth avenue to Ninety-seventh street, and thence eastwardly along the transverse road in Central Park opposite said street, and thence into the new Reservoir in said park.

This resolution was adopted by the affirmative vote of all the Commissioners present.

The report of the Committee on Construction, dated June 22d, in relation to a modification of Rule No. 3, adopted by the Commissioners for the selection and appointment of inspectors, was next considered; and Commissioner SPENCER moved that the third rule adopted by the Commissioners June 3, 1885, for the selection and appointment of inspectors, be amended to read as follows:

"3d. Each application must be accompanied by the affidavits of two or more reputable citizens, testifying as to their knowledge of the former occupation of the applicant; his character for sobriety, industry and integrity, and his competency for the duties of an inspector; and that the affiant has no pecuniary interest in the work upon the new Aqueduct, dams and reservoirs, or in the appointment of the applicant."

The motion was adopted by the affirmative vote of the Mayor, Commissioner of Public Works, Commissioners Spencer and Baldwin.

Commissioner DOWD voted in the negative, and desired to record his protest against said modification, as he considered it destructive of the value of a rule required by the provisions of the law.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

NOTE.—On Wednesday, July 8, 1885, at the regular hour of meeting, the Mayor, Comptroller and Commissioner Baldwin attended; and in the absence of a quorum, the Stated Meeting was adjourned until Wednesday next, July 15, 1885, at 3 o'clock P. M.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 209 Stewart Building, Wednesday, July 15, 1885, at 2 o'clock P. M.

Commissioners present:

The Mayor.
The Comptroller.
Commissioner of Public Works.
Commissioner WILLIAM DOWD and C. C. BALDWIN.

Also Chief Engineer Church, Deputy Chief Engineer Fteley, and Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works.

The minutes of the Stated Meeting of July 1st were read and approved.

The Committee of Finance and Audit reported the examination and audit of bills included in vouchers Nos. 880 to 901 and 912 to 932, and the sixth monthly estimates of work done by the contractors, included in vouchers Nos. 902 to 911; all of which were approved by the Board and ordered certified to the Comptroller for payment.

The Committee on Construction made verbal report upon a request from the Chief Engineer for an additional appropriation for cross-section discs, and recommended that the appropriation be made; and on motion of Commissioner BALDWIN, an additional appropriation of $47 was made for one extra tripod head, with legs, and labor, material, etc., for graduating L's and fixing said discs.

A communication was received from the Commissioner of Public Works, dated July 8, 1885, in response to the request of the Commissioners for a modified plan of the new Aqueduct south of One Hundred and First street, and through the transverse road in Central Park at Ninety-seventh street; which was read and referred to the Committee on Construction for investigation and report.

The COMMISSIONER OF PUBLIC WORKS presented the property maps, completing the set of six similar maps, for lands required for the new Aqueduct from the east side of Harlem River to One Hundred and Thirty-fifth street and Convent avenue, in New York City; which maps were duly certified by the Commissioners for transmission to the Counsel to the Corporation.

A communication addressed to the Commissioner of Public Works by the Assessors of Taxes of the City of Yonkers, and dated July 9th, was presented to the Commissioners by him and referred to the Secretary with directions to comply with the request of the Assessors therein contained.

The Secretary submitted a written opinion from the Counsel to the Corporation, dated July 7, 1885, in relation to the sinking of additional shafts upon certain parts of

the line of the new Aqueduct, and the manner in which the work should be contracted for. In connection with this matter the Chief Engineer presented a report of an accident which occurred on the 14th inst., and demonstrates the necessity for sinking an additional shaft.

The following resolution was then offered by Commissioner DOWD:

Resolved, That in the opinion of the Commissioners it is for the public interest that an additional shaft be provided for upon the lands of Bush Bennett and others on Section 9 of the new Aqueduct for the purpose of hastening the completion of the Aqueduct at that place, where unforeseen physical difficulties have been disclosed in excavating the tunnel; provided the sinking of said shaft and doing of all work incidental thereto can be done at an expenditure of not over five thousand dollars.

The resolution was adopted by the affirmative vote of all the Commissioners present; and the Secretary was directed to ascertain and report the terms upon which the land can be procured for sinking said additional shaft, and to obtain from the Counsel to the Corporation the form of contract referred to by him in the aforesaid opinion.

The Secretary presented the abstract of balance of account for the month of June, and the balance to the credit of the Additional Water Fund. The abstract was referred to the Committee of Finance and Audit; and Commissioner DOWD, as Chairman of the Committee of Finance and Audit, then offered the following resolution:

Whereas, In the estimation of the Aqueduct Commissioners the sum of one million dollars ($1,000,000) will be required to defray the necessary and lawful current expenditures of said Commissioners during the present year; now, therefore, be it

Resolved, That the Comptroller of the City of New York be and he is hereby requested to raise the said sum of one million dollars ($1,000,000) upon bonds of the City of New York, in conformity with the requirements of Section 32, Chapter 490, Laws of 1883, of the State of New York, for the uses and purposes of the Aqueduct Commissioners, as set forth in said chapter and section of said laws.

This resolution was adopted by the unanimous vote of the Commissioners present.

The Chief Engineer presented a request, dated July 8th, for authority to purchase five dozen steel and metallic tapes at a cost of not over $300. On motion of the COMMISSIONER OF PUBLIC WORKS, this request was granted and the purchase authorized.

The Chief Engineer next presented a request for the appointment of seven Inspectors from among the approved applicants, and recommending certain persons for the position; whereupon, on motion of Commissioner BALDWIN, the following persons were appointed Inspectors, with compensation at the rate heretofore fixed by the Commissioners, said compensation to commence when they are assigned to duty by the Chief Engineer, viz.: John Kelly, Thomas J. Keogh, John S. Stevenson, George

B. Francis, James Lyons, Edward O'Shea and Patrick Daly.

The Chief Engineer also made report on the complaint of Mr. Fordham Morris, as to insufficient guarding of the highway at Shaft No. 22, which was ordered placed upon file.

A communication, dated July 9th, was received from the Department of Public Parks, giving notice of the action of the Commissioners of Public Parks on the 8th inst. in relation to the route of the new Aqueduct through Central Park; which communication was read and ordered placed upon file.

Upon motion of Commissioner DOWD, it was resolved that during the remainder of this month, and the months of August and September next, the Stated Meetings of the Commissioners be held at 2 o'clock P. M.

The Chief Engineer, in accordance with the request of the Commissioners of May 20th, presented a draft of rules for the government of the Engineer Corps and care of the property of the Commission; which was referred to the Committee on Construction.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 209 Stewart Building, Wednesday, July 22, 1885, at 2 o'clock P. M.

Commissioners present:

The Mayor.
The Comptroller.
Commissioner of Public Works.
Commissioners WILLIAM DOWD and C. C. BALDWIN.

Also Chief Engineer Church, Deputy Chief Engineer Fteley and Consulting Engineer Davis; also Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works.

The minutes of the Stated Meeting of July 15th were read and approved.

The Committee of Finance and Audit reported the examination and audit of bills included in vouchers Nos. 933 to 940, which vouchers, on motion of Commissioner DOWD, were approved by the Commissioners and ordered certified to the Comptroller for payment.

The Committee also reported a deficiency of $41.20 in the appropriation of January 28th for the purchase of furniture for Division Engineer offices; and upon motion of Commissioner DOWD, an additional amount of $41.20 was appropriated for that purpose.

Notice was received from the Comptroller, dated July 18th, of the issue of warrant for payment of voucher not certified by the Aqueduct Commissioners, and appertaining to the work of the Commissioners of Appraisal for New York County, and amounting to $200; which was ordered placed on file and entered upon the books of this Commission.

The Secretary presented a communication from Messrs. F. & C. A. H. Bartlett, of counsel for H. W. T. Mali, Esq., requesting the Aqueduct Commissioners to investigate and adjust by agreement with Mr. Mali his claim for the easement rights and damages to his lands in the Twenty-fourth Ward of the city; which communication was read and referred to the Committee of Finance and Audit.

The Chief Engineer presented a communication, dated July 15th, in relation to discharge of employees in the Engineer Corps below the rank of division engineer, and requesting that certain changes be made in the rules relating to that matter.

The communication was read, and, on motion of Commissioner BALDWIN, was referred to the Special Committee on Rules and Regulations heretofore appointed.

The COMPTROLLER then offered the following resolution, which was unanimously adopted:

Resolved, That the Secretary is hereby directed to transmit to the Chief Engineer all applications for inspectorships received to this date, and which are in due form, with request that he will promptly examine all such applicants as to their fitness for the position.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 209 Stewart Building, Wednesday, July 29, 1885, at 2 o'clock P. M.

Commissioners present:

The Mayor.
The Comptroller.
The Commissioner of Public Works.
Commissioners JAMES C. SPENCER, WILLIAM DOWD and C. C. BALDWIN.

Also Chief Engineer Church, Deputy Chief Engineer Fteley, Consulting Engineer Davis, and Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works.

The meeting was called to order by the Mayor, who announced that, the hour having arrived when the bid-box was to be closed, no more bids would be received for the construction of Section No. 1 of the new Croton Aqueduct in Westchester County, and that the Commissioners would now proceed to open and read the bids re—

ceived, in pursuance of the following notice published in the *City Record*, *Daily News* and New York *Sun*, from July 7th to 29th consecutively; and also from time to time in other daily papers of this city, to wit:

"AQUEDUCT COMMISSIONERS' OFFICE,
ROOM 209, STEWART BUILDING, No. 280 BROADWAY,
NEW YORK, July 6, 1885.

TO CONTRACTORS.

Bids or proposals for constructing Section No. 1 of the new Croton Aqueduct, in Westchester County, will be received at this office until Wednesday, July 29, 1885, at two o'clock P. M., at which place and hour they will be publicly opened and read by the Aqueduct Commissioners, and the awards of the contracts will be made by said Commissioners as soon thereafter as practicable.

The portion of the said Aqueduct, for the construction of which bids are now invited, is the new Gate House at Croton Dam, and its connections with the old and new Aqueduct, and with Croton Lake.

Each bid must be enclosed in a sealed envelope, endorsed with the name of the person or persons making the same.

Each bid must state the name and place of residence of the person making the same and the names of all persons interested with them therein; also, that it is made without any connection with any other person making another bid for the same work, and is in all respects fair and without collusion or fraud; that no member of the Aqueduct Commission, or of the Common Council, no head of a department, chief of a bureau, deputy thereof, or clerk therein, or other officer of the corporation, or any person in the employ of the Aqueduct Commissioners, is directly

or indirectly interested in the bid, or in the work to which it relates, or in the profits thereof.

Each bid must be verified by the oath of the party making the same, that the several matters therein stated are true, and must be accompanied by a certified check upon a National or State bank of the City of New York, drawn to the order of the Comptroller of the City of New York, for an amount not less than five per cent. of the amount of the security required for the faithful performance of the contract. Such check must not be enclosed with the bid, but must be delivered to the Aqueduct Commissioners, or to their Secretary, for delivery to the Comptroller. All deposits, except those of the successful bidder, will be returned by the Comptroller to the persons making the same, within three days after the contracts are awarded. If the successful bidder shall neglect or refuse to execute the contract within ten days after notice of the award to him, the amount of his deposit will be forfeited to and retained by the City of New York as liquidated damages for such neglect or refusal, pursuant to the provisions of Section 29 of Chapter 490 of the Laws of 1883; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

The amount of security required on the contract for this section is fifty thousand dollars; and the surety required is that of two or more householders or resident freeholders of the State of New York (who must collectively qualify for double the amount of the bond) or approved surety companies incorporated under the laws of this State.

The names and residences of the sureties must be stated in the bids.

THE AQUEDUCT COMMISSIONERS RESERVE THE RIGHT TO REJECT ANY AND ALL BIDS IF THEY DEEM IT FOR THE BEST INTEREST OF THE CITY SO TO DO.

Blank forms of bid or proposal, and proper envelopes for their enclosure, forms of the contract, specifications and bonds, and all other information required, can be obtained at the above-named office of the Aqueduct Commissioners.

By order of the Aqueduct Commissioners.

JAMES W. McCULLOH,
Secretary."

The bid-box was then opened in the presence of a large number of contractors and others, and the following bids were opened and read:

No. 1, Bid of Collins & Farwell.
2, " Malone & Mathews.
3, " Beckwith & Quackenbush.
4, " Douglass & Dalzell.
5, " Brown, Howard & Co.
6, " O'Brien & Clark.
7, " William Nolan & Co.
8, " P. P. Dickinson.
9, " John Cox & Co.
10, " Smith & Brown.

On motion of the MAYOR, the aforesaid bids were referred to the Chief Engineer to be analyzed and tabulated for canvassing by the Commissioners at 2 o'clock P. M. to-morrow, July 30th.

The regular order of business was then taken up, and the minutes of the Stated Meeting of July 22d were read and approved.

The Committee of Finance and Audit reported the examination and audit of bills included in vouchers Nos. 941 to 960, which vouchers, on motion of Commissioner DOWD, were approved by the Commissioners and ordered certified to the Comptroller for payment.

The Committee on Construction made report, dated July 23d, of the opening of bids received by them for constructing a culvert across the dumping grounds of Shaft No. 23 in the Twenty-fourth Ward of this city, pursuant to the resolution of the Commissioners of April 1, 1885, and that Messrs. O'Brien & Clark were the lowest bidders, and well within the limitation of cost prescribed by Section 23 of the act, and that therefore the Committee recommended that the contract be given to said O'Brien & Clark.

The Committee also submitted form of contract for doing said work, and furnishing the necessary material therefor.

On motion of Commissioner BALDWIN, the contract for constructing the said culvert was unanimously awarded to O'Brien & Clark, at the prices named in their bid; and the form of agreement submitted by the Committee on Construction for constructing said culvert was approved by the Commissioners, subject to approval, as to form, by the Counsel to the Corporation.

The Committee on Construction also made report, dated July 23d, and submitted a request of the Chief Engineer for authority to purchase one additional transit, one "Y" level, and one leveling rod, at a cost of $400, and recommending that the purchase be authorized.

On motion of Commissioner SQUIRE, the recommendation was approved by the Commissioners and the purchase of the instruments authorized at a cost not to exceed $400.

The Commissioners then went into Executive Council for the consideration of a communication from the Chief Engineer, dated this day, in relation to a discontinuance of the office of an Engineer of Construction; and upon resuming the open session, the matter was, on motion of Commissioner SPENCER, referred to a special committee composed of Commissioners Dowd and Baldwin for investigation and report at as early date as practicable.

On motion of Commissioner SPENCER, the Commissioners resolved to meet to-morrow, the 30th inst., at two o'clock P. M., to canvass the bids for constructing Section No. 1 of the new Aqueduct.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF SPECIAL MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 209 Stewart Building, Thursday, July 30, 1885, at 2 o'clock P. M.

Commissioners present:

The Mayor.
The Comptroller.
Commissioner of Public Works.
Commissioners JAMES C. SPENCER, WILLIAM DOWD and C. C. BALDWIN.

On motion of the COMPTROLLER, the reading of the minutes of the Stated Meeting of the 29th inst. was deferred until the next regular meeting.

The Chief Engineer then presented a tabulated statement or the bids opened on the 29th inst., for the construction of Section No. 1 of the new Aqueduct; and on motion of Commissioner SPENCER, the Commissioners

went into Executive Council for the consideration and canvassing of said bids.

Upon resuming the open session, the following resolution was offered by the COMPTROLLER, and seconded by Commissioner BALDWIN, viz.:

Resolved, That Bid No. 10, made by James S. Smith and Henry H. Brown, of 61 Broadway, New York City, for the construction of Section No. 1 of the new Croton Aqueduct in Westchester County be accepted; and that the contract for doing the work upon said section and furnishing the materials necessary therefor be and the same is hereby awarded to said James S. Smith and Henry H. Brown, upon the terms and conditions set forth in the forms of contract and specifications heretofore approved by the Commissioners for said section, and at the prices named in said bid.

This resolution was adopted by the affirmative vote of all of the Commissioners. And the Secretary was directed to notify said Smith & Brown immediately of the awarding of said contract to them, and that they are required to attend at this office with the required sureties and execute said contract and the bond for its proper fulfillment, within ten days after the receipt of such notice. And the Secretary was further directed to notify the Comptroller of the awarding of this contract, and to request him to return all deposits received from bidders for said work, and delivered to him on the 29th inst., excepting that made by the said Smith & Brown.

The Committee on Construction (verbally) notified the

Commissioners that through the Secretary an understanding had been reached with the owners of the lands necessary for the additional shaft and dumping grounds on Section No. 9, by which the Commissioners can obtain the use of said lands for the time required, upon payment of the sum of $2,000.

On motion of Commissioner SPENCER, the Committee was authorized by the Commissioners to close the arrangement upon the terms named, and to prepare proper form of agreement for execution by said owners and the Commissioners.

The Committee on Construction next submitted communications from the Chief Engineer, dated July 27th, as follows:

1st. Asking for an appropriation of $250 for the purchase of a transit, to replace one injured beyond repair whilst in use at Shaft No. 16.

2d. Asking for an additional appropriation of $40 to cover extra cost of binding twenty-eight sets of contract drawings.

On motion of Commissioner SQUIRE, these requests were granted, and the respective appropriations were made.

Chief Engineer Church presented a communication, dated July 22d, informing the Commissioners of the failure to come to an agreement with Jerry Mahoney for extra land at the Pocantico Cut, as he demands a sum beyond

that authorized, and will make no concession. No action was taken on the communication.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

NOTE.—On Wednesday, August 5, 1885, at the regular hour of meeting, Commissioners Dowd and Baldwin attended; and in the absence of a quorum, the Stated Meeting was adjourned until Wednesday next, August 12, 1885, at two o'clock P. M.

JAMES W. McCULLOH,
Secretary.

NOTE.—On Wednesday, August 12, 1885, at the regular hour of meeting, the Comptroller and Commissioners Dowd and Baldwin attended; and in the absence of a quorum, the Stated Meeting was adjourned until Wednesday next, August 19, 1885, at two o'clock P. M.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 209 Stewart Building, Wednesday, August 19, 1885, at 2 o'clock P. M.

Commissioners present:

The Mayor.
The Comptroller.
Commissioner of Public Works.
Commissioners WILLIAM DOWD and C. C. BALDWIN.

Also Chief Engineer Church, Deputy Chief Engineer Fteley, and Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works.

The minutes of the Stated Meetings of July 29th and 30th were read and approved.

The Committee on Finance and Audit reported the examination and audit of bills included in vouchers Nos. 967 to 976, 987 to 1024, and 1025 to 1051; which vouchers were, on motion of Commissioner DOWD, approved by the Commissioners and ordered certified to the Comptroller for payment.

The Committee also reported the audit and certification to the Comptroller of the seventh monthly estimates due to contractors, and included in vouchers 977 to 986.

The Committee reported a deficiency in the appropriation for the apparatus for plumbing shafts; and Commissioner DOWD offered the following resolution. which was unanimously adopted, viz.:

Resolved, That an additional appropriation of $25 be made on account of plumbing apparatus for which an appropriation of $100 was made October 21, 1884.

The Committee next made report, dated August 11, 1885, in relation to a settlement with Mrs. William Vail for lands owned by her at Shaft No. 2 in Westchester County, and recommending that settlement be made with her by agreement for the payment of $3,000, as approved by the Commissioners at their meeting on March 4, 1885, provided said amount be now accepted in full payment for said lands, for the easements required, and for all damages.

On motion of Commissioner BALDWIN, the recommendation of the Committee was approved by the Commissioners, and the Secretary directed to inform Mrs. Vail thereof, and when notified of her acceptance, to prepare the necessary agreement for submission to the Board of Estimate and Apportionment for approval.

The Committee on Construction made reports, dated this day, as follows:

1st. Submitting an estimate of the Chief Engineer, dated August 10th, of the cost of connecting the drain from

the lands of Gustav Schwab with the culvert to be constructed across the dumping grounds of Shaft No. 23 in the Twenty-fourth Ward of this city; and recommending that said connection be made, and the work included in the agreement with O'Brien & Clark for building said culvert.

On motion of Commissioner BALDWIN, this recommendation was approved by the Commissioners, Commissioner Dowd voting in the negative; and the Secretary and Chief Engineer were directed to incorporate this work in said agreement with O'Brien & Clark.

2d. Submitting communications from the Chief Engineer, as follows:

1. Dated August 10th, asking authority to purchase 10,000 additional copies of the disc diagrams, at a cost of $165.

2. Dated August 4th, asking an appropriation of $200 for constructing an auxiliary office at Shaft No. 20 in the Twenty-fourth Ward.

The Committee recommend that these requests be granted and the appropriations made; and, on motion of Commissioner BALDWIN, the Commissioners so ordered.

3. Asking authority to employ another laborer on the Fifth Division to facilitate the testing of cement, and naming therefor W. H. Springsteen.

The Committee recommended that this request be granted and the appointment made; and, on motion of Commissioner BALDWIN, it was so ordered by the affirmative vote of the Mayor, Commissioner of Public Works

and Commissioner Baldwin, the Comptroller and Commissioner Dowd voting in the negative.

4. Dated August 12th, recommending the promotion from laborers to chainmen of Richard C. Rathborne, Roland G. Rood and Charles P. Brown, with compensation at the rate of $60 per month.

On motion of Commissioner BALDWIN, this recommendation was approved and the promotions made, the compensation to date from September 1st, next.

5. Dated August 17th, asking an appropriation of $120 for the purchase of 12 protractors for plotting disc diagrams, and of $500 for the purchase of sundry apparatus for shaft and tunnel alignment and measurement.

On motion of Commissioner SQUIRE, these requests were granted and the appropriations made.

A communication was received from the Commissioner of Public Works, dated August 18, 1885, transmitting maps of the property necessary for that part of Quaker Bridge Reservoir between the Quaker Bridge and Croton Dam, accompanied by said maps marked "Exhibit DD."

The communication was read, and on motion of Commissioner BALDWIN the said exhibit was referred to the Chief Engineer for examination and report thereon at as early date as practicable.

Notice, dated August 15th, was received from the Comptroller of the issue of warrant for voucher not certified by the Aqueduct Commissioners, and appertaining to the

work of the Commissioners of Appraisal for New York County, amounting to $200; which notice was ordered placed on file and entered upon the books of this Commission.

The Comptroller also gave notice, dated August 12th, of the receipt and filing in his office, as required by law, of one of the originals of the contract with Smith & Brown for the construction of Section No. 1 of the new Croton Aqueduct; which notice was ordered filed with the original of the contract on file in this office.

The Secretary submitted a communication received from William S. Dunn, Esq., dated August 15, 1885, in relation to the settlement for the right of way for the new Aqueduct through lands of himself and H. B. Claflin in the Twenty-fourth Ward of the city; which was read, and on motion of Commissioner DOWD the matter was referred to the Committee of Finance and Audit, with power.

The Secretary notified the Commissioners that the forms of agreement had now been approved by the Counsel to the Corporation for the construction of the culvert at Shaft No. 23, and for the lands required for Shaft No. 18½; whereupon the COMPTROLLER offered the following rrsolution, which was adopted by the affirmative vote of all the Commissioners present:

Resolved, That the President and the Vice-President of this Commission are hereby authorized and requested, either one or the other of them, on behalf of the Cnmmissioners, to execute the agreements with O'Brien & Clark for constructing the culvert upon

the dumping grounds of Shaft No. 23 in the Twenty-fourth Ward of this city; and also the agreement with Messrs. Bush, Rumsey, Bennett and others, for the shaft site and dumping grounds for Shaft No. 18½ in the City of Yonkers.

On motion of Commissioner BALDWIN, the following resolution was adopted by the Commissioners:

Resolved, That the Chief Engineer and Secretary are hereby directed to prepare and submit to the Commissioners at their next meeting a plan for rendering more efficient the work (other than engineering) now performed at the Tarrytown and New York headquarters.

On motion of Commissioner DOWD, it was resolved that when the Commissioners adjourn it be until the 2d of September next, at 2 o'clock P. M.

The Chief Engineer made verbal report to the Commissioners in relation to the construction of the new Aqueduct through Gould's Swamp, and stated that he would make formal report thereon after investigations now in progress are completed.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 209 Stewart Building, Wednesday, September 2, 1885, at 2 o'clock P. M.

Commissioners present:

The Mayor.
The Comptroller.
Commissioners WILLIAM DOWD and C. C. BALDWIN.

Also Chief Engineer Church, Deputy Chief Engineer Fteley, and Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works.

The minutes of the Stated Meeting of August 19th were read and approved.

The Committee of Finance and Audit reported the examination and audit of bills included in vouchers Nos. 1058 to 1071, which vouchers, on motion of Commissioner DOWD, were approved by the Commissioners and ordered certified to the Comptroller for payment.

The COMPTROLLER gave notice of the awarding of "Additional Water Stock of the City of New York;" which notice was read, ordered to be spread upon these minutes, proper entry thereof made upon the books of this Commission, and the notice placed upon file, viz.:

"CITY OF NEW YORK—FINANCE DEPARTMENT,
COMPTROLLER'S OFFICE, August 31, 1885.

JAMES W. CULLOH, Esq.,
Secretary, Aqueduct Commission:

Sir,—Under a resolution adopted by the Aqueduct Commission July 15, 1885, requesting the Comptroller to raise the sum of $1,000,000 for the monthly payments to become due to contractors, on contracts awarded for the construction of the Aqueduct between the Harlem River and the Croton Dam, pursuant to Section 32 of Chapter 490 of the Laws of 1883, bids were opened at the Comptroller's office, August 27, 1885, for that amount of 'Additional Water Stock of the City of New York,' bearing interest at the rate of three per cent. per annum, free from city and county taxation, and payable October 1, 1904, according to advertisement for proposals, a copy of which is herewith transmitted.

The whole amount was taken at a premium of $17,163, the total proceeds of the bonds being $1,017,163, which amount has been paid into the City Treasury to the credit of the account of 'Additional Water Fund,' and is subject to the requisition of the Aqueduct Commissioners for the purposes mentioned in said resolution.

Yours respectfully,

EDWARD V. LOEW,
Comptroller."

The Chief Engineer and Secretary presented a joint report, dated this day, in compliance with the resolution of the 19th of August, calling for a plan for rendering more efficient the work (other than engineering) now performed at the Tarrytown and New York headquarter offices.

The report was read, and on motion of the COMPTROLLER was referred to the Committee of Finance and Audit for consideration and report.

The Chief Engineer presented a report dated September 2, 1885:

1st. Asking authority to order 100 copies of the contract plans for the Aqueduct work between Shaft No. 24 and One Hundred and Thirty-fifth street in this city, at a cost of $350.

On motion of Commissioner DOWD, authority was given to order the said copies at the cost above named.

2d. Recommending the division of the said work into sections, as follows:

1. Section 12, to extend from Station 1490+63 across Harlem River to Station 1510 on Tenth avenue, containing Shaft No. 25, with the necessary provision for a bailing apparatus for the purpose of freeing from water the inverted siphon under Harlem River, containing also Shaft No. 26, with an overflow and a double cast iron pipe to conduct the surplus water to Harlem River. Length of the section, 1,937 feet.

2. Section 13, to extend from Station 1510, in Tenth avenue about 300 feet north of One Hundred and Seventy-

eighth street, to Station 1557, also in Tenth avenue near One Hundred and Sixty-first street; containing Shafts Nos. 27 and 28. Length of section, 4,700 feet.

3. Section 14, to extend from Station 1557, in Tenth avenue near One Hundred and Sixty-first street, to a point near One Hundred and Thirty-fifth street; containing Shafts Nos. 29, 30, 31 and 32. Lenth of section, about 7,100 feet.

Total length of the work to be let, about 13,643 feet.

On motion of Commissioner BALDWIN, the above recommendations of the Chief Engineer were unanimously approved by the Commissioners, and the said work ordered to be so divided into sections for letting.

The Chief Engineer next presented a report, of this date, upon the progress of the work now under contract; which, on motion of Commissioner DOWD, was read in Executive Council and laid over for further consideration.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 209 Stewart Building, Wednesday, September 9, 1885, at 2 o'clock P. M.

Commissioners present:

The Mayor.
The Comptroller.
Commissioner of Public Works.
Commissioner JAMES C. SPENCER.

Also Chief Engineer Church, Deputy Chief Engineer Fteley and Consulting Engineer Davis; also Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works.

The minutes of the Stated Meeting of September 2d were read and approved.

The Committee of Finance and Audit reported the certification to the Comptroller for payment of vouchers Nos. 1072 to 1081, for the eighth monthly estimates for work done by the contractors on Sections 2 to 9, and A and B,

amounting to $223,161.23; which, on motion of the COMPTROLLER, was approved by the Commissioners.

The Secretary reported that the deed for lands and easements taken from Mr. Samuel L. M. Barlow, in the Twenty-fourth Ward, was now executed and ready for delivery, and a voucher prepared for the payment of the consideration money; and was instructed to have the voucher duly certified to the Comptroller for payment, on delivery of said deed.

The Chief Engineer presented a report, dated September 8, 1885, of the suspension of Arthur H. Grant, Rodman on the Fifth Division, at his own request, to take effect September 11th.

On motion of Commissioner SPENCER, the suspension of Mr. Grant was approved, his resumption of duty to depend on the pleasure of the Commissioners.

The Chief Engineer next presented a report, of this date, upon the mode of constructing the new Aqueduct through Gould's Swamp, which report, on motion of Commissioner SPENCER, was considered in Executive Council; and, upon motion of the COMPTROLLER, was then referred to the Committee on Construction for investigation and report.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 209 Stewart Building, Wednesday, September 16, 1885, at 2 o'clock P. M.

Commissioners present:

The Mayor.
The Comptroller.
Commissioner of Public Works.
Commissioners JAMES C. SPENCER, WILLIAM DOWD and C. C. BALDWIN.

Also Chief Engineer Church, Deputy Chief Engineer Fteley and Consulting Engineer Davis; also Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works.

The minutes of the Stated Meeting of September 9, 1885, were read and ordered amended, and as amended approved.

The Committee of Finance and Audit reported the certification to the Comptroller for payment of voucher No. 1082, in favor of Samuel L. M. Barlow, for $21,714.88, the amount due him for lands and easements for the new

Aqueduct, and also the examination and audit of bills included in vouchers Nos. 1083 to 1112, which latter were, on motion of Commissioner DOWD, approved by the Commissioners and ordered certified to the Comptroller for payment.

The Committee also made report, dated September 15th, in relation to the joint report of the Chief Engineer and Secretary for rendering more efficient the work (other than engineering) now done in the Engineer's offices at Tarrytown and New York, and offered the following resolution:

Resolved, That for the more efficient performance of the work (other than engineering) connected with the Engineering Department, and now done at the Tarrytown and New York headquarters, it is hereby directed—

1st. That all the work now done at Tarrytown and New York in connection with the purchase of instruments, materials and supplies for the Engineer Corps, and keeping records of property, and all purchases for the offices of the Commissioners in New York be hereafter done in the office of the Secretary in New York, and that the Purveyor and Property Clerk be placed under his direction.

2d. That hereafter purchases of every kind for the Engineer Corps and all the New York offices shall be made by the Purveyor only, and upon formal requisitions, the Chief Engineer to give to the Purveyor such direction and assistance in the purchase of articles requiring technical skill as will enable him to act understandingly.

3d. That the Chief Engineer and Secretary together make, from time to time, such changes in the forms of requisition, receipt and certification of the Engineer and others as the Committee of Finance and Audit deem necessary to insure greater promptness and efficiency in the transaction of the business (other than engineering) of the Commission.

4th. That until otherwise ordered the duties of Purveyor and Property Clerk be performed by one and the same person, and that the services of the present Purveyor be dispensed with.

5th. That these changes shall take effect on the 1st of October next, and the Chief Engineer and Secretary are hereby directed to make the necessary arrangements therefor.

This resolution was adopted by the affirmative vote of all the Commissioners.

The Committee on Construction made report, dated September 14th, concurring in the recommendation of the Chief Engineer that the following promotions be made in the Engineer Corps, viz.:

Henry H. Bowley, from Leveler to Transitman, with compensation at the rate of $1,500 per annum.

Ira A. Shaler, from Rodman to Leveler, with compensation at the rate of $1,200 per annum.

Andrew J. Lamb and Charles P. Bonnett, from Chainman to Rodman, with compensation at the rate of $75 per month.

On motion of Commissioner SPENCER, these recommendations were approved by the Commissioners, and the promotions made, to date from the 1st of October next.

The Committee also recommended an additional appropriation of $70 to cover the cost of glass targets, and of $15 for furniture for the Engineer Corps.

This recommendation was also approved by the Commissioners, and the appropriations made.

The Committee also made report, dated September 14th, in relation to the method of constructing the new Aqueduct across Gould's Swamp, and recommending further soundings and borings at that place.

The report was considered in Executive Council, and on motion of Commissioner SPENCER the recommendations of the Committee were approved by the Commissioners, and the Chief Engineer instructed to make the required explorations, and to report the results to the Commissioners at as early a day as practicable.

The report was then laid over for future consideration, and the Committee on Construction were requested to confer with the Counsel to the Corporation and obtain his opinion upon the legal questions involved.

The Special Committee to whom was referred, upon July 29th, the communication of the Chief Engineer of that date, in relation to the discontinuance of the office of Engineer of Construction, made report thereon dated September 15th.

The report was considered in Executive Council, and action thereon deferred.

The Secretary presented a communication from the Counsel to the Corporation, dated September 10, 1885, giving notice of the filing in the office of the Register of the City and County of New York, and the County of Westchester on August 28, 1885, of the property maps for the new Aqueduct from the east side of the Harlem River to One Hundred and Thirty-fifth street and Convent avenue, and of the commencement on September 11th of the required publication of notice of motion for the appointment of Commissioners of Appraisal.

The communication was read and ordered placed upon file.

The Chief Engineer, under date of September 15th, submitted an estimate of the cost of constructing culverts at Shafts Nos. 19, 20 and 21, and recommended that they be built.

On motion of the COMPTROLLER, the matter was referred to the Committee on Construction for investigation and report, with request that an opinion be obtained by them from the Counsel to the Corporation upon the obligation of the contractors, under the specifications, to provide for such drainage.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 209 Stewart Building, Wednesday, September 23, 1885, at 2 o'clock P. M.

Commissioners present:

The Mayor.
The Comptroller.
Commissioner of Public Works.
Commissioners JAMES C. SPENCER, WILLIAM DOWD and C. C. BALDWIN.

Also Chief Engineer Church, Deputy Chief Engineer Fteley and Consulting Engineer Davis; also Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works.

The minutes of the Stated Meeting of September 16th were read and approved.

The Committee of Finance and Audit reported the examination and audit of bills included in vouchers Nos. 1113 to 1118, which vouchers, on motion of Commissioner DOWD, were approved by the Commissioners and ordered certified to the Comptroller for payment.

The Committee also reported the sale by the Secretary, under their direction, of ten sets of the plans for Section No. 1, and one set of the plans for Sections 2 to 9 of the new Aqueduct, and the payment of the proceeds ($115) to the City Chamberlain, to the credit of "The Additional Water Fund."

The Committee on Construction made report, dated September 22d, in relation to communications received by them from the Chief Engineer, as follows:

1st. Transmitting an estimate of the coal required for the coming winter in the offices of the engineers on Divisions 1 to 6, amounting to 190 tons.

On motion of Commissioner SPENCER, the Purveyor was instructed to purchase the coal promptly.

2d. Recommending the appointment of a Tunnel Inspector, and nominating Joseph Gill for the position.

On motion of the MAYOR, action thereon was deferred until the next meeting.

3d. Recommending the purchase of an additional transit instrument, with mining shade, and two steel lining rods, for use in the tunnel on the Sixth Division, the cost thereof not to exceed $250.

On motion of Commissioner SQUIRE, this recommendation was approved by the Commissioners, and the purchase authorized, within the above-named limit of cost.

4th. Recommending the promotion of the following persons in the Engineer Corps, to date from October 1*st* next, viz.:

Ramsey Turnbull, from Chainman to Rodman, with compensation at the rate of $75 per month.

David B. Lewis, from Leveler to Transitman, with compensation at the rate of $1,500 per annum.

On motion of Commissioner SPENCER, these recommendations were approved by the Commissioners, and the promotions made.

The Committee further reported, under date of September 22d, as follows:

1st. Recommending that the Committee be authorized, when they deem it advisable, to direct the sale, by the Purveyor, of wood cut by the engineers upon the line of the new Aqueduct, and now lying upon the land decaying.

On motion of Commissioner DOWD, this recommendation was approved, and the Committee empowered to direct sales.

2d. Recommending that on and after October 1st prox., William W. Proctor, the present Property Clerk, be required to perform the duties of Purveyor, without increase of his present compensation, and that he furnish the bond required from the incumbent of that office.

On motion of Commissioner SPENCER, this recommendation was approved by the Commissioners, and the Secretary directed to prepare the required bond, and to notify Mr. Proctor of this action of the Commissioners.

The Comptroller, under date of September 19, 1885, gave notice of the issue of warrant for voucher not ap-

proved by the Aqueduct Commissioners, and appertaining to the work of the Commissioners of Appraisal for New York City and County, amounting to $200; which notice was ordered placed upon file and entered upon the books of this Commission.

The Secretary made a report to the Commissioners, dated September 22d, in relation to the settlement with Mr. Jay Gould for land taken from him by agreement with the Commissioners, and approved by the Board of Estimate and Apportionment on the 21st of February, 1885, said report showing that the area of the land taken by the City exceeds the quantity named in the agreement executed by Mr. Gould (April 7, 1885) to the extent of $\frac{789}{1000}$ of one acre, amounting at the agreed price per acre to the sum of $256.42, and also that Mr. Gould claims interest on the purchase money from the date of his agreement until payment is made to him; whereupon Commissioner SPENCER offered the following resolution:

Whereas, It was heretofore agreed between the Aqueduct Commissioners and Mr. Jay Gould that payment should be made to him at the rate of $325 per acre for land taken from him for the construction of the new Aqueduct in the Town of Greenburg, in Westchester County, and a formal agreement therefor was executed and delivered by him on the 7th day of April last, in which courses and distances are set forth and the area stated to be twenty acres and $\frac{572}{1000}$ of one acre (20.572), and the sum of six thousand six hundred and eighty-five and $\frac{90}{100}$ dollars ($6,685.90) therein named as the amount of the consideration for said lands, the payment of which specified sum had been approved by

the Board of Estimate and Apportionment on the 21st of February, 1885; and

Whereas, By recent re-surveys errors have been disclosed in the courses and distances named in said agreement and the true area of the land taken ascertained to be twenty-one acres and $\frac{361}{1000}$ of one acre (21.361), exceeding the area named in said agreement to the extent of $\frac{789}{1000}$ of one acre (.789); therefore it is

Resolved, That in the opinion of the Aqueduct Commissioners, Mr. Jay Gould is entitled to payment for the now ascertained correct area of the land taken, to wit, 21.361 acres, at the agreed price of $325 per acre, making the sum of sixty-nine hundred and forty-two $\frac{32}{100}$ dollars; and that the payment to him having been long delayed by reason of the consumption of time in searching title and making the resurveys, he is entitled to interest upon the purchase money from the date of his formal agreement (April 7, 1885) to the time of payment; therefore

Resolved, That for the 21.361 acres of land taken from Mr. Jay Gould in the Town of Greenburg, for the construction of the new Aqueduct, he be paid the sum of $6,942.32, with interest at the rate of six per cent. per annum from the 7th of April, 1885, to the time of payment to him, such adjustment being subject to approval by the Board of Estimate and Apportionment of the City of New York, as required by Section 23 Chapter 490, Laws of 1883.

And the Secretary is hereby directed to communicate this action to the said Board of Estimate and Apportionment, and to request its approval thereof.

These resolutions were adopted by the affirmative vote of all of the Commissioners.

The Chief Engineer presented a further report, dated September 23d, in relation to the office of an Engineer of Construction, which report was considered in Executive Council, and then referred to the Committee on Construction for further consideration and report.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 209 Stewart Building, Wednesday, September 30, 1885, at 2 o'clock P. M.

Commissioners present:

The Mayor.
The Comptroller.
Commissioners JAMES C. SPENCER, WILLIAM DOWD and C. C. BALDWIN.

Also Chief Engineer Church and Consulting Engineer Davis; also Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works.

The minutes of the Stated Meeting of September 23d were read and approved.

The Committee of Finance and Audit reported the examination and audit of bills included in vouchers Nos. 1119 to 1132, which vouchers were, on motion of Commissioner DOWD, approved by the Commissioners and ordered certified to the Comptroller for payment.

The Committee on Construction officially reported to the Commissioners the death, on the 25th inst., of Assistant

Engineer Robert E. Morris; killed by an accident at Shaft Zero, and submitted resolutions which, on motion of Commissioner DOWD, were unanimously adopted by the Commissioners, and ordered spread upon these minutes, as follows:

Resolved, That in the death of Robert E. Morris, Assistant Engineer of the First Division of the new Aqueduct, the Engineer Corps has lost a capable and efficient officer and an esteemed associate. He was young in years and professional experience, but gave promise of great ability and usefulness in the great work that had enlisted all his feelings and energies, and in the prosecution of which he lost his life. He was steadfast and true in all his duties, and was a noble example for all his fellows.

Resolved, That we would convey to his widow, so recently his bride, and to his parents and sister, our sympathies in their great affliction.

The Committee on Construction, at the request of the Chief Engineer, then submitted a list of approved applicants for inspectorships, and recommended that the following persons be appointed Inspectors, viz.:

Michael Ryan.
James Corrigan.
Eugene McCarthy.
George C. Densmore.
John H. McKean.
Edward Fitzgerald.
Edward H. Best.
Joseph Gill, Sr.

On motion of Commissioner BALDWIN, this recommendation was approved by the Commissioners and the appointments made, the persons to be assigned to duty by the Chief Engineer as the progress of the work requires. The expression of the Commissioners is that the Inspectors appointed shall be called to the work in the order of their appointment, except where the interest of the work may otherwise require, and such special cases to be reported to the Commissioners by the Chief Engineer.

The Committee on Construction next submitted, without recommendation, communications from contractors O'Brien & Clark and from the Chief Engineer in relation to an additional shaft south of Shaft 12B, on Section 6 of the new Aqueduct.

The communications were read, and considered by the Commissioners; and, on motion of the COMPTROLLER, were referred back to the Committee on Construction for investigation and report.

The Comptroller, under date of September 26, 1885, gave notice of the issue of warrant for voucher not approved by the Aqueduct Commissioners, and appertaining to the work of the Commissioners of Appraisal for New York City and County, amounting to $2,000; which notice was ordered placed upon file and entered upon the books of this Commission.

The Secretary reported (verbally) that the Counsel to the Corporation was of opinion that the agreement between the Commissioners and Messrs. Bush, Rumsey and others, for the temporary use of lands for Shaft No. 18½, required the approval of the Board of Estimate and Apportionment;

whereupon Commissioner DOWD offered the following resolution, which was unanimously adopted by the Commissioners, viz.:

Whereas, The Aqueduct Commissioners have now agreed with Messrs. Myron P. Bush, Bronson C. Rumsey and others for the right to sink a shaft (to be known as Shaft 18½) upon certain lands in the City of Yonkers, designated upon the property maps of the new Aqueduct as Parcel No. 223, and belonging to said Bush and others, and for the use as dumping grounds of adjacent lands of said Bush and others, the consideration for the same being the sum of two thousand dollars ($2,000); therefore it is

Resolved, That said agreement be submitted to the Board of Estimate and Apportionment for its approval, pursuant to Section 23, Chapter 490, Laws of 1883; and the Secretary is hereby directed to transmit said agreement to said Board for its approval.

The Chief Engineer verbally reported progress in the preparation of the specifications for Sections 12, 13 and 14 of the new Aqueduct.

Upon request of the Chief Engineer, Commissioner SPENCER offered the following resolution, which was adopted by the Commissioners, viz.:

Resolved, That the draft of "Rules and Regulations" for the Engineer Corps, submitted by the Chief Engineer to the Commissioners at their meeting of July 15th last, and referred to the Committee on Construction, be now recalled from that Committee and referred

back to the Chief Engineer for reconsideration and amendment.

On motion of Commissioner SPENCER, the following resolution was adopted, viz.:

Whereas, All the work (other than engineering) now done in the Engineer's offices at Tarrytown and in New York is hereafter to be done in the office of the Secretary in New York; it is

Resolved, That the Secretary is hereby directed to report promptly to the Committees of Finance and Audit and of Construction what, if any, changes can be made in his department conducive of its efficiency.

On motion of Commissioner DOWD, it was

Resolved, That until otherwise ordered, the Stated Meetings shall continue to be held at the hour of 2 o'clock P. M.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

NOTE.—On Wednesday, October 7, 1885, at the regular hour of meeting, the Commissioner of Public Works, Commissioner Dowd and Commissioner Baldwin attended; and, in the absence of a quorum, the Stated Meeting was adjourned until Wednesday next, October 14, 1885, at 2 o'clock P. M.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 209 Stewart Building, Wednesday, October 14, 1885, at 2 o'clock P. M.

Commissioners present:

The Mayor.
Commissioner of Public Works.
Commissioners JAMES C. SPENCER and C. C. BALDWIN.

Also Chief Engineer Church; Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works.

The minutes of the Stated Meeting of September 30th were read and approved.

The Committee of Finance and Audit reported the examination and audit of bills included in vouchers Nos. 1139 to 1151, and also of the ninth monthly estimates for work done by contractors during the month of September and included in vouchers Nos. 1152 to 1161.

On motion of Commissioner BALDWIN, the above

vouchers were approved and ordered certified to the Comptroller for payment.

The Committee also reported the sale, by Purveyor Proctor, of wood lying upon the line of the new Aqueduct between Stations 653 to 658, south of Gould's Swamp, for the sum of ten dollars ($10), and the payment thereof to the City Chamberlain to the credit of "The Additional Water Fund."

The Committee on Construction made reports as follows:

1st. Dated October 5, 1885. In relation to an additional shaft south of the present Shaft 12B, on Section 6 of the new Aqueduct, the Committee reported that the work would be facilitated and benefited by such an additional shaft, and recommended that the contractors be authorized to sink said shaft, and that they be paid therefor the sum of five thousand dollars ($5,000), the agreement to be made with such conditions as will fully protect the City from all claims for the lands necessary for such shaft, and for dnmping grounds, and for all damages incident to the sinking of said shaft.

Commissioner SPENCER offered the following resolution, viz.:

Resolved, That the above recommendation of the Committee on Construction is hereby approved, and the Secretary directed to prepare the necessary agreements under the direction of the Counsel to the Corporation; the exact location of the proposed additional shaft to be determined by the Chief Engineer, with the approval of the Committee on Construction.

This resolution was adopted by the affirmative vote of all the Commissioners present.

2d. Dated October 5, 1885. Submitting a request from the Chief Engineer for an appropriation for constructing an auxiliary office for the engineers of Division No. 1 at Croton Dam, and recommending that authority be given to erect said office at a cost not exceeding two hundred and fifty dollars ($250).

On motion of Commissioner SPENCER, the recommendation of the Committee was approved by the Commissioners, and the Chief Engineer authorized to have said office built, within the above-named limit of cost.

3d. Dated October 6, 1885. Submitting a recommendation of the Chief Engineer for the following promotions and appointments in the Engineer Corps, viz:

That Ira Ganong and Henry Sunkle be promoted from Laborers to Chainmen, with compensation at the rate of $60 per month; that Charles N. Perry be appointed to the position of Chainman, with compensation at the rate of $60 per month; and that William T. Ross be appointed Rodman in the place of Arthur H. Grant, relieved from duty, with compensation at the rate of $75 per month, in which recommendations the Committee concurred.

On motion of Commissioner SQUIRE, the above named recommendations were approved by the Commissioners, the promotions to take efiect on the 1st of November next, and the appointments when the persons enter upon the discharge of their duties.

4th. The request of Alfred H. Renshaw, Leveler, for leave of absence from October 21st to November 4th, which

request has the approval of the Engineer of Construction, the Chief Engineer and the Committee on Construction, with the recommendation of the Committee that the leave of absence be granted, with pay.

On motion of Commissioner SPENCER, the leave of absence was granted, with pay, for the time above named.

The Committees of Finance and Audit and of Construction made joint report, dated October 12, 1885, submitting a communication from the Secretary in response to the direction of the Commissioners on the 30th of September, requiring him to report "what changes, if any, can be made in his department conducive of its efficiency;" upon which communication the Committees made the following recommendations:

1st. With regard to the stenographer and typewriting operator, that the resignation of Mr. Lucas be accepted, to take effect on the 15th inst.; and that to fill the vacancy caused by such resignation, the appointment of Edward L. Allen of this City be made, with compensation at the rate of $1,000 per annum.

2d. That Edward B. Buckley be promoted from office boy to a clerkship, with compensation at the rate of $400 per annum, to date from the 1st of November next, said clerkship being subject to the approval of the Board of Estimate and Apportionment.

3d. That the services of the present messenger, Mr. John R. Vernam, be dispensed with at the close of this month.

4th. That the Secretary be directed to examine and re-

port upon the qualifications of those applying for the position of office boy, and that these Committees be empowered to employ the person selected by them.

5th. That the Secretary be directed to have a telephone placed in his office at an annual rental not to exceed $150.

And in addition to the matters above referred to in the report of the Secretary, the Committee on Construction request that they be authorized to employ a clerk for said Committee at a compensation of not to exceed $400 per annum; such clerkship being also subject to the approval of the Board of Estimate and Apportionment.

On motion of Commissioner SPENCER, all of the above recommendations of the Committee of Finance and Audit and the Committee on Construction and the request of the latter Committee, were approved by the Commissioners, and the Secretary directed to take proper steps to carry them into effect.

A communication was received from the Commissioner of Public Works, dated October 7, 1885, transmitting plans and profiles of a new Gate Chamber at One Hundred and Thirty-fifth street and Convent avenue; of the tunnel connecting said Gate-House with Shaft No. 32, on Convent avenue north of One Hundred and Thirty-fifth street; of a connection with the Gate-House to be built for the old Aqueduct, on Tenth avenue south of One Hundred and Thirty-fifth street, and of the stop-cocks and pipe connected with said Gate Chamber for distributing the water hereafter to flow through the new Aqueduct, and also showing the lands necessary to be taken for the above described work, the said plans being designated "Exhibit D D."

On motion of Commissioner SPENCER, the communication of the Commissioner of Public Works and its accompanying exhibit were laid on the table.

The Comptroller, under date of October 3 and October 10, 1885, gave notice of the issue of warrants for vouchers not certified by the Aqueduct Commissioners, and appertaining to the work of the Commissioners of Appraisal for New York City and County, for the sum of thirty-four and $\frac{60}{100}$ dollars ($34.60), and of the Commissioners of Appraisal for Westchester County, amounting to three hundred dollars ($300), which notices were ordered placed upon file and entered upon the books of this Commission.

The Secretary made report, dated October 5, 1885, in relation to the transfer by him on the 1st instant of the work of the Purveyor from Mr. Wilson to Mr. Proctor, and his action in the premises.

On motion of Commissioner BALDWIN, the action of the Secretary was approved by the Commissioners, and the compensation of Mr. Wilson directed to be paid to the 15th of the current month, and the Secretary directed to notify him of this action.

The Chief Engineer presented a communication, dated October 6, 1885, in relation to damages done to the premises of Mr. Joseph P. Disbrow, north of Shaft 20, and Mr. Disbrow's request for compensation for such damages.

On motion of Commissioner SPENCER, the communication was referred to the Committee of Finance and Audit for investigation and report.

A communication was received from the Corporation Counsel, dated October 6, 1885, stating that, for reasons

therein given, it was necessary to postpone until November 21st the motion for the appointment of Commissioners of Appraisal to value the lands taken for the new Aqueduct, upon Manhattan Island.

On motion of Commissioner SPENCER, the communication was ordered placed upon file.

A communication was received from Mr. William H. Webb, dated September 30, 1885, in relation to damages inflicted upon his property north of the village of Glenville, in Westchester County, which communication, on motion of Commissioner SPENCER, was referred to the Committee of Finance and Audit for investigation and report.

The Commissioners then went into Executive Council for the consideration of plans and maps prepared by the Chief Engineer, showing the new roads and bridges required in the event of the building of the Quaker Bridge Dam; and upon resuming the open session, Commissioner BALDWIN offered the following resolution, viz.:

Resolved, That the public hearing in relation to all matters connected with the construction of the proposed Quaker Bridge Dam and reservoir, adjourned upon the 12th of April, 1884, "until further notice," be resumed on Wednesday, November 4th, ensuing, at 3 o'clock P. M., and the Secretary is hereby directed to prepare and publish notice of the resumption of said hearing.

This resolution was adopted unanimously.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 209 Stewart Building, Wednesday, October 21, 1885, at 2 o'clock P. M.

Commissioners present:

The Commissioner of Public Works.
Commissioners SPENCER, DOWD and BALDWIN.

Also Chief Engineer Church, and Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works.

The minutes of the Stated Meeting of October 14th were read and approved.

The Committee of Finance and Audit reported the adjustment by them of the claim of William S. Dunn for damages and fencing upon his premises in the Twenty-fourth Ward of this City, for the sum of $1,906.20, and the execution and delivery of deeds by Mr. Dunn and his wife for the right of way for the new Aqueduct through their lands; whereupon Commissioner SPENCER offered the following resolution, viz.:

Resolved, That the Commissioners hereby approve of the award to William S. Dunn by the Committee of Finance and Audit (under authority given them by the Commissioners August 19, 1885), for damages done to his property in the Twenty-fourth Ward, and for the fencing required to protect his own and his wife's lands adjoining the new Aqueduct, and that the voucher for said award, amounting to $1,906.20, be certified to the Comptroller for payment.

The resolution was adopted unanimously, and the voucher No. 1162 for said award of $1,906.20 certified to the Comptroller for payment.

The Committee of Finance and Audit next reported the examination and audit of bills included in vouchers Nos. 1163 to 1177, which vouchers were, on motion of Commissioner BALDWIN, approved by the Commissioners and ordered certified to the Comptroller for payment.

The Committee on Construction made reports as follows, all under date of October 19th inst., viz.:

1st. Upon request from the Chief Engineer for the following appropriations:

$300 for repairs to furnances, stoves and other appliances for heating the offices of the Tarrytown headquarters and of the several Division Engineers.

$1,000 to defray cost of disc-diagram machines, gas-pipe, plummet, lamps, paints, brushes, ladders, brass scales and other implements required for the work of the Division Engineers.

$150 for chests, or shelving, in the offices of the Chief

Engineer and Division Engineers, to preserve cross-section diagrams of the tunnel excavation.

$15 for an extra sheet in the plans for Sections 12, 13 and 14.

The Committee recommended that the requests above named be granted, and on motion of Commissioner SPENCER, the appropriations were made.

2d. In relation to the matter of culverts at Shafts 19, 20 and 21, the Committee reported in favor of constructing a culvert at Shaft 19, and deferred reporting on those at Shafts 20 and 21 until they could make further examination of those sites.

And on motion of Commissioner SPENCER, it was

Resolved, That the Chief Engineer and Secretary are hereby directed to prepare plans, specifications and estimates for the construction of a culvert upon the dumping grounds of Shaft No. 19, at the intersection of Midland and Central avenues, in the City of Yonkers, and to submit the same to the Committee on Construction for approval, and the said Committee is hereby authorized to obtain bids and make an agreement for doing the work pursuant to Section 33, Chapter 490, Laws of 1883, and the Secretary is further directed to prepare and present to the Commissioners for execution the certificate required by the aforesaid section of the act.

3d. In relation to the payment of the salaries of members of the Engineer Corps during absences caused by sickness or injury incident to their work, and the following resolu-

tion was offered by Commissioner SPENCER, and adopted unanimously, viz.:

Resolved, That members of the Engineer Corps of this Commission be allowed compensation during absences caused by sickness or injury whenever their superior officers shall certify that such sickness or injury was caused by or incident to their work; such certificates being subject to the approval of the Committee of Finance and Audit whenever the absence extends beyond two weeks.

4th. Recommending the promotion of the following members of the Engineer Corps, viz.:

Walter McCulloh from Transitman to Assistant Engineer, with compensation at the rate of $1,800 per annum.

George R. Olney, from Leveler to Transitman, with compensation at the rate of $1,500 per annum.

Edward F. Playle, from Chainman to Rodman, with compensation at the rate of $75 per month.

Andrew Peddie, from Laborer to Chainman, with compensation at the rate of $60 per month.

Also recommending the appointment of Charles McKean and Thomas Rooney, as Laborers to assist the field parties on the 3d and 6th Divisions.

The Commissioners by a unanimous vote approved the above named promotions; to take effect on the 1st of November next, and the appointment of McKean and Rooney, to take effect when they enter upon the discharge of their duties.

The Committee further recommended that the action of the Commissioners at their last meeting, appointing Wil-

liam T. Ross as Rodman, be rescinded, and that he be appointed Chainman with compensation at the rate of $60 per month.

This recommendation was approved by the Commissioners, and on motion of Commissioner SPENCER, it was

Resolved, That the appointment of William T. Ross, as Rodman, in the place of Arthur H. Grant, relieved from duty, be and the same is hereby rescinded, and that the said William T. Ross be and he is hereby appointed Chainman, with compensation at the rate of $60 per month, to date from his entrance upon the discharge of his duty in the Engineer Corps of this Commission.

The Committee on Construction, by its Chairman, then offered the following resolution:

Resolved, That in view of the accidents happening to the workmen engaged in the tunnel work of the Aqueduct by the falling of rock from the roof thereof, the Chief Engineer is hereby directed to make full examination in the premises, and report to this Commission what means and measures may be adopted in the direction and superintendence of the work under the contracts that may prevent such accidents in the future, or reduce the number of the same.

The resolution was adopted unanimously.

The COMPTROLLER, under date of October 17 and 21, 1885, gave notice of the issue of warrants for vouchers not certified by the Aqueduct Commissioners, and appertaining to the work of the Commissioners of Appraisal for the

City and County of New York, amounting to $3,557.83; and of the County of Westchester, amounting to $611.67, which notices were ordered placed upon file and entered upon the books of this Commission.

The Secretary presented for signature the certificate required by Section 33, Chapter 490, Laws of 1883, for the work to be done at Shaft 18½, in the City of Yonkers, which was read and approved by the Commissioners, and on motion of Commissioner BALDWIN was signed by the Commissioners present, and the Secretary directed to obtain the signatures of the remaining members of this Commission, and to file the certificate with the Comptroller.

The communication of October 7, 1885, from the Commissioner of Public Works, with accompanying Exhibit D D, presented at the last meeting of the Commissioners, was then taken from the table, and on motion of Commissioner SQUIRE was referred to the Chief Engineer for consideration and report.

On motion of Commissioner BALDWIN, it was

Resolved, That until otherwise ordered, the Stated Meeting of this Commission be held at 3 o'clock P. M.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 209 Stewart Building, Wednesday, October 28, 1885, at 3 o'clock P. M.

Commissioners present:

Commissioner of Public Works.
Commissioners SPENCER, DOWD and BALDWIN.

Also Chief Engineer Church; Consulting Engineer Davis, and Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works.

Vice-President DOWD presided.

The minutes of the Stated Meeting of October 21st were read and approved.

The Committee of Finance and Audit reported the examination and audit of bills included in vouchers Nos. 1178 to 1187; which vouchers were, on motion of Commissioner BALDWIN, approved by the Commissioners, and ordered certified to the Comptroller for payment.

The Committee on Construction made reports, with recommendations as follows:

1st. Dated October 28, 1885. Submitting a request from the Chief Engineer for an appropriation of $500 for additional furniture and fixtures for the offices of the Division Engineers and the auxiliary offices, and recommending that the appropriation be made.

On motion of Commissioner SPENCER, this recommendation was approved by the Commissioners, and the appropriation made.

2d. Dated October 26, 1885. Recommending the promotion of George B. Burbank from Inspector to Assistant Engineer.

On motion of Commissioner SPENCER, Mr. Burbank was promoted to the position of Assistant Engineer, with compensation at the rate of $1,800 per annum, to date from the 1st of November next.

3d. Dated October 26, 1885. Recommending an appropriation of $150 for an additional level for use at the Saw Mill River crossing, and on motion of Commissioner SPENCER, the appropriation was made.

4th. Dated October 27, 1885. Recommending that a culvert be built across the dumping ground of Shaft 20, and by agreement made in pursuance of Section 33 of the act.

On motion of Commissioner DOWD, this report was laid over until the next meeting.

Notice, dated October 24, 1885, was received from the

Comptroller of the issuance of warrants for vouchers not certified by the Aqueduct Commissioners, and appertaining to the work of the Commissioners of Appraisal for New York City and County and for Westchester County, amounting to $1,006.31; which notice was ordered placed on file and entered upon the books of this Commission.

The Secretary presented a letter from the Counsel to the Corporation, dated October 21, 1885, in response to questions in relation to the temporary easement right required over the lands of Bartholomew Ryder, at Shaft 4, in the Town of Newcastle; which was read, and, on motion of Commissioner SPENCER, the matter was referred to the Committee of Finance and Audit for adjustment.

The Chief Engineer made report, dated October 28, 1885, in response to the resolution of the Commissioners of October 21st, in relation to the prevention of accidents to workmen upon the construction of the new Aqueduct; which report was read, and, on motion of Commissioner BALDWIN, was referred to the Committee on Construction.

The Chief Engineer next presented a report, dated 28th of October, upon amending the rules and regulations for the government of the Engineer Corps of this Commission; which report, on motion of Commissioner SPENCER, was referred to the Committee on Construction.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 209 Stewart Building, Wednesday, November 4, 1885, at 3 o'clock P. M.

Commissioners present:

The Comptroller.
Commissioner of Public Works.
Commissioners SPENCER, DOWD and BALDWIN.

Also Chief Engineer Church and Consulting Engineer Davis; Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works, and many citizens.

Vice-President DOWD presided, and opened the meeting for public hearing, in pursuance of the following notice:

"AQUEDUCT COMMISSIONERS' OFFICE,
STEWART BUILDING, 280 BROADWAY, ROOM 209,
NEW YORK, October 17, 1885.

PUBLIC NOTICE—FINAL HEARING.

To whom it may concern:

In conformity with the requirements of Section 2, Chapter 490, Laws of 1883, of the State of New York, public

notice is hereby given to all persons interested that full opportunity will be afforded them to be heard in relation to the various plans now under consideration by the Aqueduct Commissioners for the location and construction of one or more of the following dams and reservoirs upon the Croton River, in the County of Westchester, viz.:

FIRST.—That known as 'Quaker Bridge Dam' and reservoir, about four miles below the present Croton Dam.

SECOND.—That known as the 'Muscoot Dam' and reservoir, at Muscoot Mountain, about six miles above the present Croton Dam.

THIRD.—A dam and reservoir on the east branch of the Croton River and commonly known as the 'Sodom Dam and Reservoir I.'

All as shown upon the plans, maps and profiles in this office.

The said public hearing having been adjourned on the 12th of April, 1884, until further notice, will now be resumed at the office of the Aqueduct Commissioners, Room 209, Stewart Building, No. 280 Broadway, in the City of New York, on Wednesday, November 4, 1885, at 3 o'clock P. M., and continued on such days thereafter to which said hearing may be adjourned, until finally concluded.

By order of the Aqueduct Commissioners.

JAMES W. McCULLOH,
Secretary."

The VICE-PRESIDENT informed those present that the Commissioners would be pleased to hear any one in relation to the construction of the proposed dams and reservoirs. No one responding, the hearing was temporarily suspended, and the regular order of business entered upon.

The minutes of the Stated Meeting of October 28th were read and approved.

The Committee of Finance and Audit reported the examination and audit of bills included in vouchers Nos. 1195 to 1212; which vouchers, on motion of Commissioner BALDWIN, were approved by the Commissioners and ordered certified to the Comptroller for payment.

The Committee next presented a report, of this date, upon the following claims for lands required for the construction of the new Aqueduct, viz.:

1st. Upon lands belonging to the New York Life Insurance Company, at Ardsley, Westchester County, which said company offers to convey to the City, in fee, for the sum of $5,000; and the Committee recommended that the offer be accepted.

This recommendation was approved by the Commissioners, and the following resolution unanimously adopted:

Resolved, That the Aqueduct Commissioners are of opinion that it is to the interest of the City that the claim for compensation of the New York Life Insurance Company for certain lands and easement rights required for the construction of the new Croton Aqueduct, in the Town of Greenburg, in the County of Westchester, be adjusted by agreement, as provided by Section 23, Chapter 490, Laws of 1883, for the taking of Parcel No. 516 and the lands adjoining, upon the north, in fee, and for the easement in perpetuity under Parcel No. 515, the consideration for such taking being the sum of $5,000; upon payment of which sum, said company shall make full and sufficient conveyance of said lands and easement to the City; and

the Secretary is hereby directed to prepare proper form of said agreement, and to present the same to the Board of Estimate and Apportionment for its approval, as required by the above-named section of the act.

2d. Upon the compensation demanded by Bartholomew Ryder for the temporary easement required for a roadway across his lands to Shaft Site No. 4, in the Town of New Castle, in the County of Westchester, as set forth in the letter of the Counsel to the Corporation, dated October 21, 1885; and the Committee recommended that the matter be adjusted by agreement with Mr. Ryder, under Section 23 of the act, by the payment to him of the sum of $500 for the said easement right during the construction and until the completion of the Aqueduct; and that the Secretary be directed to confer with the Corporation Counsel in relation to the preliminary legal steps necessary, as set forth in his aforesaid letter of October 21st.

This recommendation was approved by the Commissioners, and the following resolution unanimously adopted, viz.:

Resolved, That, in the opinion of the Aqueduct Commissioners, it is to the interest of the City that settlement be made with Bartholomew Ryder by agreement, as provided for in Section 23, Chapter 490, Laws of 1883, for the use, during the construction and until the completion of the new Croton Aqueduct, of certain lands owned by him in the Town of New Castle, in the County of Westchester, over which a temporary easement is required for a roadway to Shaft Site No. 4 of said Aqueduct, said easement to continue for a term not to exceed five years from the date hereof, and the

consideration for the easement to be the sum of $500; and the Secretary is hereby directed to obtain from the Counsel to the Corporation a proper form of agreement; and when the same shall have been duly executed by said Ryder, to submit it to the Board of Estimate and Apportionment for approval, as required by the aforesaid section of the act. And also to prepare proper voucher for the payment of the consideration money, whenever the Counsel to the Corporation shall give notice that the legal formalities indicated in his letter of October 21, 1885, have been fully complied with.

The Committee on Construction made reports, dated November 2, 1885, as follows:

1st. Submitting and recommending the adoption of the readjustment of the salaries paid draughtsmen in the office of the Chief Engineer, as set forth in his report to the Committee, of same date, viz.:

NAMES.	PRESENT COMPENSATION.	PROPOSED ADJUSTMENT.
A. A. Aquirre	$150 per month	$125 per month
C. P. Karr	125 per month	125 per month
R. W. Creuzbaur	100 per month	125 per month
C. G. Gustafson	100 per month	125 per month
C. C. Manning	100 per month	125 per month
N. R. Kelly	125 per month	125 per month
W. R. Atkinson	100 per month	100 per month
G. Bonanno	100 per month	125 per month
L. G. Ghetti	50 per month	75 per month

This recommendation was approved by the Commissioners, and, on motion of Commissioner SPENCER, the readjustment was ordered, to take effect from the 1st of the current month.

2d. Recommending the promotion of Louther S. Horne from Laborer to Chainman, with compensation at the rate of $60 per month.

Commissioner SPENCER moved that the promotion be made, and that Charles E. Richards, now acting as Cement Inspector on the Fifth Division, be also promoted from Laborer to Chainman, with same compensation, both promotions to date from November 1st.

The motion was adopted, and the promotions made.

3d. Submitting reports from the Division Engineer of the Sixth Division and the Chief Engineer in relation to damage done to the property of Joseph P. Disbrow, near Shaft 20, and recommending that said reports be referred to the Committee of Finance and Audit, with power.

The recommendation was adopted.

4th. Upon the report of the Special Committee on September 23d, and the statements of the Chief Engineer, in relation thereto, for amending the By-Laws so far as the same refer to the office of the Engineer of Construction, and recommending the following amendments:

1st. That Section 2, Article V. of the By-Laws be amended by striking out after the words "clerical force" the figures "1, 2 and 3," and also the words "Property

Clerk," so that it will read (after "clerical force") as follows, viz.:

"Chief Clerk to the Chief Engineer and Assistant Clerks."

This recommendation was approved by the Commissioners, and the amendments made by the affirmative vote of all present.

2d. That Section 6, Article V. of said By-Laws be amended to read as follows:

"CONSTRUCTION ENGINEER.

The Construction Engineer is the Supervising Engineer of Construction in the field, and is the immediate superior of the Division Engineers and their parties. All general plans, instructions and orders that are to be executed by the Division Engineers in the construction work shall be transmitted by the Chief Engineer in duplicate, one to the Construction Engineer, the other to the Division Engineer, and the Construction Engineer shall supervise their execution. If a difference of opinion as to the execution of any plans, orders and instructions of the Chief Engineer shall arise, between the Construction Engineer and a Division Engineer, the Construction Engineer shall immediately report the same to the Chief Engineer, who shall promptly give his orders in reference thereto, and the same shall be obeyed. All other orders or instructions that he receives from the Chief Engineer or Deputy Chief Engineer he shall execute promptly. His whole duty shall be in the field, that by constant personal examination he can know at all times, and be able to keep the Chief Engineer constantly and fully informed in regard to the con-

dition and progress of the work. He shall make weekly reports of the same to the Chief Engineer.

Work of all other kinds than personal examination and supervision, and reports on actual construction, shall devolve upon others than the Construction Engineer, in order that his whole time and attention may be devoted to the discharge of his field duties. He is hereby authorized and may suspend, for cause, any Engineer or employee under his direct command, reporting such suspension and the facts and cause thereof immediately to the Chief Engineer. He shall have charge of the property of the Commission in the headquarters of the Engineer Corps at Tarrytown, and his office shall be at said headquarters, and his duties shall be performed in the field and on the line of the Aqueduct, as required by the Chief Engineer, the Committee on Construction or the Aqueduct Commissioners."

On motion of Commissioner SPENCER, this amendment was adopted, the vote being—

In the affirmative—The Comptroller and Commissioners Spencer, Dowd and Baldwin.

In the negative—The Commissioner of Public Works.

Commissioner SPENCER then moved the adoption of the Rules and Regulations proposed by the Chief Engineer for the government of the Engineer Corps, and amended by the Committee on Construction to read as follows, viz.:

"RULES AND REGULATIONS FOR THE ENGINEER CORPS OF THE AQUEDUCT COMMISSION.

1st. The attention of the Engineer Corps is called to the following extract from Section 3, Article V. of the By-

Laws of the Aqueduct Commission, passed May 20, 1885: 'The Chief Engineer is the head and chief of the Engineer Corps, and his orders as such shall be observed and obeyed by all in said corps. He is responsible directly to the Aqueduct Commissioners for the design and execution of all the engineering plans and construction work of the Commission.'

2d. All employees of the Engineering Corps may obtain leave of absence, with pay, for no more than two weeks in the aggregate in any one calendar year. Such leave of absence is to be considered a favor that shall be granted only if it can be done without detriment to the work, and otherwise to the satisfaction of the Chief Engineer.

Applicants for a leave of absence, with pay, of more than three days must send their applications in writing to the Chief Engineer through their superior officer or officers, who shall endorse thereon their approval or disapproval of the application, with his or their reasons therefor. In case of necessity, such leave of absence may be granted by the immediate superior officer of the applicant, who must report immediately in regard to it.

Leaves of absence of less than three days may be granted by the immediate superior officer of the applicant, if he is satisfied that they can be granted without detriment to the work; but such leaves of absence must be reported in the following weekly report of said superior officer. In all cases the date of departure and return to duty of the employee on leave must be reported to the Chief Engineer, and by him to the Committee of Finance and Audit.

3d. No deduction is to be made in the pay of an employee

whose salary is fixed by the month or by the year, unless approved by the Chief Engineer and the Committee of Finance and Audit.

4th. The Construction Engineer and the Division Engineers are held responsible for the property of the Aqueduct Commissioners put in their charge, and the Property Clerk shall keep an accurate record of the same.

5th. A complete inventory of the property of every kind belonging to the Commissioners in the use and custody of the Engineering Department, mentioning where and in whose custody or use the same may be, shall be made every three months, commencing on August 15, 1885.

6th. All employees in the Engineer Corps to whom are sent any supplies or materials direct from the office of the Chief Engineer in New York City must render a receipt for the same directly to the said office of the Chief Engineer as soon as such supplies or materials are received by them, and the Chief Engineer must report the same to the Secretary.

7th. No liability whatever shall be incurred by any member of the Engineer Corps, or any article purchased, repairs to instruments ordered, or expenditure of any kind made by them (except necessary traveling expenses), with out a requisition for the same, or an order in writing signed by the Chief Engineer.

8th. The note at the foot of the requisition, as at present printed, should be strictly enforced; and no bill will be audited and signed by the Chief Engineer unless a duplicate bill and the order for the articles charged for

therein shall be first sent to the office of the Chief Engineer in New York City, as is directed and ordered in the above-mentioned note.

9th. All requisitions sent by the Division Engineers to the Construction Engineer must be acted upon promptly by him, and, if approved, forwarded within forty-eight hours to the office of the Chief Engineer in New York City.

10th. All bills to which, in the opinion of the Chief Engineer, the certificate of the Construction Engineer may be considered necessary, must be promptly examined by him, and, if found correct, signed and forwarded weekly.

11th. Copies of all contracts or agreements for supplies or labor must be sent to the office of the Chief Engineer in New York City for his approval before becoming valid.

12th. All general plans, instructions and orders of the Chief Engineer are to be carried out by the Construction and the Division Engineers, who will be responsible for their execution. Duplicates of instructions, and orders to Division Engineers, and their replies and communications, shall be forwarded to the Construction Engineer by the Chief Engineer.

13th. Duplicates of all orders, directions and communications from the Construction Engineer to the Division Engineers, and of their replies thereto, shall be promptly sent to the Chief Engineer by the Construction Engineer. When a difference of opinion shall arise between the Construction and Division Engineer, each shall present his views to the Chief Engineer, who will give his orders in regard thereto, and the same shall be promptly obeyed."

This motion was adopted by a unanimous vote; and the Secretary directed to print said Rules in the publication of By-Laws heretofore directed to be made.

The Comptroller gave notice, under date of October 31st, of the issuance of warrant for vouchers not certified by the Aqueduct Commissioners, and appertaining to the work of the Commissioners of Appraisal for Westchester County, amounting to $188.87, which notice was ordered placed on file and entered upon the books of this Commission.

The Chief Engineer presented a request from O'Brien & Clark for an additional shaft near Station 240, which, on motion of Commissioner SQUIRE, was referred to the Committee on Construction for investigation and report.

The Chief Engineer next made report, of this date, upon the matter of the drain from the lands of Gustav Schwab, near the dumping grounds of Shaft 23, and indicating the proper way of making the connection between said drain and the culvert upon said dumping grounds.

And, on motion of Commissioner SPENCER, the Chief Engineer was authorized to direct the contractor to make the connection in the manner indicated.

The Secretary presented a letter from Mr. William H. Webb, in relation to alleged damages to wells upon his lands, north of Elmsford, which was referred to the Chief Engineer for investigation and report.

The Commissioners next took up the report of the Committee on Construction, dated October 27th, in relation to

the construction of culvert at Shafts 20 and 21, which matter was laid over at the last Stated Meeting.

Commissioner SPENCER moved that the recommendations of the Committee in said report (that a culvert should be built at once upon the dumping grounds of Shaft 20, and that the work be done as provided for in Section 33 of the act) be approved, and that the Chief Engineer and Secretary be directed to prepare the necessary plans and specifications for said culvert, and that the Committee on Construction be authorized to obtain bids for doing said work, and report to the Board that which, in their opinion, should be accepted.

This motion was adopted.

The public hearing was then resumed, and those present notified that the Commissioners would be pleased to hear any one who desired to be heard. No one responded, and the hearing was ordered to be continued on Wednesday next, November 11th, at 3 o'clock P. M., and the Secretary directed to give public notice thereof.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 209 Stewart Building, Wednesday, November 11, 1885, at 3 o'clock P. M.

Present:

The Comptroller.
Commissioners SPENCER, DOWD and BALDWIN.

Also Chief Engineer Church, Deputy Chief Engineer Fteley, Consulting Engineer Davis; and Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works; and several citizens, amongst whom were Messrs. O. B. Potter, William H. Webb and Joseph Benedict.

Vice-President DOWD presided, and opened the meeting for public hearing pursuant to the following notice, which was read, viz.:

"AQUEDUCT COMMISSIONERS' OFFICE,
STEWART BUILDING, 280 BROADWAY, ROOM 209,
NEW YORK, November 5, 1885.

PUBLIC NOTICE—FINAL HEARING.

To whom it may concern :

In conformity with the requirements of Section 2, Chapter 490, Laws of 1883, of the State of New York, public notice is hereby given to all persons interested that full opportunity will be afforded them to be heard in relation to the various plans now under consideration by the Aqueduct Commissioners for the location and construction of one or more of the following dams and reservoirs upon the Croton River, in the County of Westchester, viz.:

FIRST.—That known as 'Quaker Bridge Dam' and reservoir, about four miles below the present Croton Dam.

SECOND.—That known as the 'Muscoot Dam' and reservoir, at Muscoot Mountain, about six miles above the present Croton Dam.

THIRD.—A dam and reservoir on the east branch of the Croton River and commonly known as the 'Sodom Dam and Reservoir I.'

All as shown upon the plans, maps and profiles in this office.

The said public hearing having been adjourned on the 12th of April, 1884, until further notice, and resumed at the office of the Aqueduct Commissioners, Room 209, Stewart Building, No. 280 Broadway, in the City of New York, on Wednesday, November 4, 1885, will be con-

tinued on Wednesday next, 11th inst., at 3 o'clock P. M., and on such days thereafter to which said hearing may be adjourned, until finally concluded.

By order of the Aqueduct Commissioners.

JAMES W. McCULLOH,
Secretary."

The maps and plans of all the above-named dams and reservoirs prepared by the Department of Public Works; and also all those prepared by the Engineer of this Commission, were on exhibition, and the Vice-President announced that the Commissioners would hear any one who desired to be heard in relation to the said dams and reservoirs.

Mr. William H. Webb and Mr. O. B. Potter addressed the Commissioners, both asking delay, to give them an opportunity to have the plans and estimates prepared by the engineers of this Commission examined by other engineers, and asked that they be furnished copies of the engineers' estimates now before the Commissioners, and the Secretary was directed to furnish the copies.

On motion of Commissioner SPENCER, the Chief Engineer was directed to prepare another estimate of the proposed Sodom Dam and Reservoir I, for comparison with the former estimate made by the Department of Public Works.

No one else desiring to be heard, the COMPTROLLER moved that the hearing be adjourned until Wednesday, the 25th inst., and thereafter continued from day to day until finally concluded.

The motion was carried, and the Secretary directed to give public notice of the continuance of the hearing.

The regular order of business was then taken up, and the minutes of the Stated Meeting of November 4th read and approved.

The Committee of Finance and Audit reported the examination and audit of bills included in vouchers Nos. 1225 to 1232, and of the first sub-estimate of Section A for O'Brien & Clark, voucher No. 1233; all of which vouchers were, on motion of Commissioner DOWD, approved by the Commissioners and ordered certified to the Comptroller for payment.

The Committee on Construction made reports, dated November 9th, as follows:

1st. Recommending an appropriation of $40 for work upon the auxiliary office of the engineers at South Yonkers, for the protection of fuel stored there and for storm door.

On motion of Commissioner SPENCER, this recommendation was approved, and the appropriation made by the Commissioners.

2d. Reporting that recent surveys of the lands and levels at Shaft Site 21, in the Twenty-fourth Ward, showed that no culvert was required for drainage at that place.

On motion of Commissioner SPENCER, the report was ordered placed on file.

The Secretary read a communication from the Counsel to the Corporation, dated 10th inst., in relation to the en-

gineers of this Commission attending as witnesses before the Commissioners of Appraisal; whereupon Commissionors SPENCER offered the following resolution:

Resolved, That the Chief Engineer is hereby authorized and directed to issue an order directing the engineers in the employ of this Commission to appear, without subpœna, and testify before the Commissioners of Appraisal upon any reasonable request of the counsel representing the City before said Commissioners, and to give to the said counsel all information and assistance in their power in properly representing the interest of the City before the said Commissioners.

The resolution was adopted, and the Secretary directed to notify the Counsel to the Corporation of this action of the Commissioners.

The Secretary called attention to the limit of time within which the culvert and drain at the dumping grounds of Shaft 23 was to have been completed by the contractors, and explained why an extension of time for such completion was necessary; whereupon Commissioner SPENCER offered the following resolution:

Resolved, That the time for the completion of the work to be done under the agreement between the Aqueduct Commissioners and O'Brien & Clark, dated September 17, 1885, for the construction of a culvert and drain upon the dumping grounds of Shaft No. 23, in the Twenty-fourth Ward, be and the same is hereby extended to the 1st day of January, 1886.

This resolution was adopted, and the Secretary directed to notify the contractors of this extension.

A letter was received from Mr. M. H. Meyer, asking for an adjustment with him by agreement for the lands taken from him for dumping grounds at Shaft No. 14, near Ardsley, in Westchester County.

On motion of Commissioner BALDWIN, the matter was referred to the Committee of Finance and Audit for investigation.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 209 Stewart Building, on Wednesday, November 18, 1885, at 3 o'clock P. M.

Present:

The Mayor.
The Comptroller.
Commissioner of Public Works.
Commissioners SPENCER, DOWD and BALDWIN.

Also Chief Engineer Church, Deputy Chief Engineer Fteley and Consulting Engineer Davis; also Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works.

The minutes of the Stated Meeting of the 11th inst. were read and approved.

The Committee of Finance and Audit reported the examination and audit of bills included in vouchers Nos. 1234 to 1245; which vouchers were, on motion of Commissioner DOWD, approved by the Commissioners and ordered certified to the Comptroller for payment.

The Committee on Construction made reports, dated 16th inst., as follows:

1st. Upon the method of constructing the new Aqueduct across Gould's Swamp; submitting therewith reports from the Chief Engineer in relation to the explorations and nature of material found at that place; also an opinion of the Counsel to the Corporation upon the legal questions involved in the matter, and making recommendations as follows:

1. In view of the facts stated by the engineers, and the opinion of said Counsel, we have reached the conclusion, and now recommend, that the plan of a siphon tunnel be adopted, and a supplementary agreement for its construction be made, as recommended by said Counsel.

2. And to enable the Commissioners to determine the best mode of clearing said siphon, we recommend that the Chief Engineer be instructed to prepare and submit plans, estimates and details for a pumping apparatus, and also for an adit to the Hudson River.

These recommendations were approved by the Commissioners, and, upon motion of Commissioner SPENCER, the said plan of a siphon tunnel was adopted by the affirmative vote of all the Commissioners.

2d. A report upon accidents which have occurred in the progress of the work upon the new Aqueduct, and the rules and regulations established by the contractors for the prevention of such accidents, and recommending the adoption of the following resolution:

Resolved, That the Chief Engineer is hereby requested to consider and advise with the contractors upon the new Aqueduct work, and with the Committee on Construction in regard to the rules and regulations established by the contractors for the prevention of accidents upon the work, and to recommend for adoption by the contractors such rules and regulations as may appear expedient and necessary for the better discipline and governance of their superintendents, foremen and employees while engaged in the execution of the work upon the new Aqueduct, to insure the safety of persons engaged in such work, and the contractors are earnestly requested to adopt, promulgate and enforce such rules and regulations, in the execution of the work, as shall most fully secure the safety of all persons engaged in the same. The Chief Engineer shall report in the premises, from time to time, to the Committee on Construction, and act upon their counsel and direction.

This resolution was unanimously adopted.

The Committee then verbally recommended the appointment as Inspectors of the following applicants, who have been examined and approved by the Chief Engineer and duly certified by the Commissioners, viz.:

William J. Riley.
John Michel.
Charles Blankenhorn.
Frank E. Clark.
William D. Phelan.
Thomas F. McCauley.
William W. Wheeler.
John J. Arthur.

On motion of Commissioner SPENCER, the above-named persons were appointed Inspectors by a unanimous vote, the appointments to take effect when they are assigned to duty by the Chief Engineer.

The following resolution was offered by Commissioner DOWD, Chairman of the Finance and Audit Committee:

Whereas, In the estimation of the Aqueduct Commissioners, the further sum of two million dollars will be required to defray the necessary and lawful current expenditures of said Commissioners; now, therefore, be it

Resolved, That the Comptroller of the City of New York be and he is hereby requested to raise the sum of two million dollars upon bonds of the City of New York, in conformity with the requirements of Section 32, Chapter 490, Laws of 1883, of the State of New York, for the uses and purposes of the Aqueduct Commissioners, as set forth in said chapter and section of said laws.

The resolution was adopted by the affirmative vote of all the Commissioners.

The Comptroller, under date of the 14th inst., gave notice of the issuance of warrants for vouchers not certified by the Aqueduct Commissioners, and appertaining to the work of the Commissioners of Appraisal, as follows:

For New York Section, amounting to.....	$450 00
For Westchester Section, amounting to....	2,569 80

Which notice was ordered placed upon file and entered upon the books of this Commission.

The Chief Engineer presented a request, dated 18th inst., for authority to consult a mechanical engineer and builder, of experience and ability in iron construction, upon several points of importance in the iron work required upon Section 12 of the new Aqueduct, and named the probable fee for such consultation.

On motion of Commissioner SPENCER, the desired authority was given to the Chief Engineer.

The Chief Engineer made report, of this date, in relation to plans required from the Commissioner of Public Works for the new Aqueduct, or pipe lines, south of One Hundred and Thirty-fifth street, which matter was discussed and then laid over for future consideration.

The Secretary reported that, in compliance with the verbal instructions of the Commissioners, Mr. John R. Vernam had this day been recalled, and resumed his duties as Messenger of the Commissioners, and asked formal approval thereof by the Commissioners, as authority for replacing Mr. Vernam upon the pay-roll at his former rate of compensation.

On motion of the COMPTROLLER, this action of the Secretary was approved by the Commissioners.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 209 Stewart Building, Wednesday, November 25, 1885, at 3 o'clock P. M.

Present:

The Mayor.
The Comptroller.
Commissioners SPENCER and DOWD.

Also Chief Engineer Church, Deputy Chief Engineer Fteley and Consulting Engineer Davis, and Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works.

The meeting was opened for public hearing pursuant to the following notice:

"AQUEDUCT COMMISSIONERS' OFFICE,
STEWART BUILDING, 280 BROADWAY, ROOM 209,
NEW YORK, November 18, 1885.

PUBLIC NOTICE—FINAL HEARING.

To whom it may concern:

In conformity with the requirements of Section 2, Chapter 490, Laws of 1883, of the State of New York,

public notice is hereby given to all persons interested that full opportunity will be afforded them to be heard in relation to the various plans now under consideration by the Aqueduct Commissioners for the location and construction of one or more of the following dams and reservoirs upon the Croton River, in the County of Westchester, viz.:

FIRST.—That known as 'Quaker Bridge Dam' and reservoir, about four miles below the present Croton Dam.

SECOND.—That known as the 'Muscoot Dam' and reservoir, at Muscoot Mountain, about six miles above the present Croton Dam.

THIRD.—A dam and reservoir on the east branch of the Croton River and commonly known as the 'Sodom Dam and Reservoir I.'

All as shown upon the plans, maps and profiles in this office.

The said public hearing having been adjourned on the 12th of April, 1884, until further notice, and resumed at the office of the Aqueduct Commissioners, Room 209, Stewart Building, No. 280 Broadway, in the City of New York, on Wednesday, November 4, and on Wednesday, November 11, 1885, will be continued at said office on Wednesday, November 25, 1885, at 3 o'clock P. M., and on such days thereafter to which said hearing may be adjourned, until finally concluded.

By order of the Aqueduct Commissioners.

JAMES W. McCULLOH,
Secretary."

Among the citizens present were Messrs. O. B. Potter, William H. Webb, Jackson A. Schultz, Robert L. Darragh,

John H. Sherwood, Fred. A. Conkling, James E. Serrell, Edward Glaskin, Clarence H. Kelsey, P. A. Cassidy and many others.

The President stated that the Commissioners had decided that all testimony by experts must be presented in writing, and verified on oath by the witness.

Mr. Clarence H. Kelsey presented tabulated statements made by him, verified them, and addressed the Commissioners at length in relation thereto.

Messrs. O. B. Potter, William M. Webb, Robert L. Darragh, John H. Sherwood and others followed, and their statements were recorded by the stenographer of the Commissioners.

Upon request of Messrs. Webb and Darragh, the Chief Engineer, on motion of the COMPTROLLER, was instructed by the Commissioners to prepare such a general specification of the proposed Quaker Bridge Dam as would enable competent experts to make from it an approximate estimate of the cost of said dam.

And at 5.30 P. M. the hearing was adjourned until Wednesday next, December 2d, at 3 o'clock P. M., and to be thence continued until concluded.

The regular order of business was then taken up.

On motion of Commissioner SPENCER, the reading of the minutes of the last Stated Meeting was deferred.

The Committee of Finance and Audit reported the examination and audit of bills included in vouchers Nos.

1247 to 1257, and of the first sub-estimate on Section 9, voucher No. 1258; all of which vouchers were, on motion of Commissioner DOWD, approved by the Commissioners, and ordered certified to the Comptroller for payment.

The Committee on Construction made report, dated 23d inst., recommending an appropriation of $125 for furniture, drawing tables, stoves, etc., for the auxiliary office of the engineers at Croton Dam; which recommendation was approved by the Commissioners, and on motion of Commissioner SPENCER the appropriation was made.

Commissioner SPENCER then offered the following resolution, which was unanimously adopted:

Resolved, That in conformity with the provisions of Section 25, Chapter 490, Laws of 1883, the Commissioner of Public Works be and he is hereby requested to prepare and submit to the Aqueduct Commissioners forms of contracts, specifications and bonds for the doing of the work, and the furnishing of the materials required to be done and furnished by the plans adopted by said Commissioners on the 13th day of May, 1885, for the construction of the new Croton Aqueduct from the easterly side of the Harlem River to a point near One Hundred and Thirty-fifth street and Convent avenue, in this city, and to have the same approved "as to form" by the Counsel to the Corporation.

A subpœna *duces tecum* having been served upon the Mayor, as President of this Commission, requiring the production, before the Commissioners of Appraisal for the City and County of New York, of certain records of the Commissioners, the Secretary, on motion of the MAYOR,

was directed to respond to said subpœna on behalf of the Commissioners, and to furnish the Commissioners of Appraisal with transcripts of the records in relation to the subject matter of the subpœna.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 209 Stewart Building, on Wednesday, December 2, 1885, at 2 o'clock P. M.

By special call the Commissioners met at 2 o'clock P. M. for the transaction of the regular business of the Commission, before the hour for public hearing.

Present:

The Mayor.
The Comptroller.
Commissioner of Public Works.
Commissioners SPENCER and BALDWIN.

Also Chief Engineer Church, Consulting Engineer Davis, and Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works.

The minutes of the meetings of November 18th and 25th were read and approved.

Owing to the sickness and absence of Commissioner Dowd, Chairman of the Committee of Finance and Audit, that Committee made no report.

The Committee on Construction made reports as follows:

1st. In relation to the request of Heman Clark, contractor, for authority to sink an additional shaft on Section B of the new Aqueduct in the Twenty-fourth Ward, and recommending that said shaft be authorized upon condition that the contractor secure from the owners of the land the necessary right to sink the shaft and dump the material therefrom, and do all the work incidental thereto, at a cost to the City of not exceeding five thousand dollars ($5,000); that said shaft be located at or near Station 232, upon Parcel 74 of the lands of Samuel T. Knapp; that it be designated Shaft No. 19½, and that the work be done under an agreement with the contractor similar to that for sinking Shaft No. 18½.

On motion of Commissioner SPENCER, the above recommendations of the Committee were approved by the Commissioners, and the additional shaft authorized by the affirmative vote of all the Commissioners present.

2d. Recommending that leave of absence, with pay, be granted Guiseppe Bonnano, Draughtsman in the Engineer Corps, for one additional week, terminating December 13th, which recommendation was approved by the Commissioners and the leave granted.

The Commissioners having been informed that the forms of contract, specifications and bonds for the construction of the new Aqueduct on Sections 12, 13 and 14, in the Twelfth Ward, would be ready for formal approval at the next regular meeting, Commissioner BALDWIN offered the following resolutions:

Resolved, That the time and place for opening the bids for constructing Sections Nos. 12, 13 and 14 of the new Croton Aqueduct upon Manhattan Island, be and the same is hereby fixed as Wednesday, January 6, 1886, at 2 o'clock P. M., at this office, and the length of time and designation of the newspapers for the advertisement of the said letting, as required by Section 26 of the act, be and the same is hereby referred to the Committee on Construction, with power.

Resolved, That the Secretary be and he is hereby directed to prepare the necessary form of bid for said sections in accordance with the form and requirements for bids heretofore approved by the Commissioners, and to have one hundred and fifty (150) copies for each of the above-named sections printed.

The resolutions were adopted by unanimous vote.

The Comptroller gave notice, under date of November 21st and 28th, of the issue of warrants for vouchers not certified by the Aqueduct Commissioners, for awards made by the Commissioners of Appraisal for lands in the Twenty-fourth Ward of the city, amounting to $22,938.55; for expert services $150, and for counsel fees $500; which notices were ordered placed upon file and entered upon the books of this Commission.

The Chief Engineer presented a request, dated November 25th, that the Commissioners decide the question of raising the grade of the new Aqueduct from the head of the incline, north of Shaft 20, as the final grade from that point to the north line of the city must shortly be determined and given to the contractors.

On motion of Commissioner SPENCER, the matter was referred to the Committee on Construction for investigation and report.

The Chief Engineer next presented a request from O'Brien & Clark for four (4) additional shafts, and recommended the favorable consideration of the request.

On motion of Commissioner SPENCER, the matter was referred to the Committee on Construction for investigation and report.

The Secretary, as directed by the Commissioners, made report, dated 25th of November, showing from the records the past action of the Commissioners in relation to the southern terminus of the new Aqueduct.

On motion of the MAYOR, the matter was referred to the Committee on Construction for consideration and report.

A request was received from the Clerk of the Board of Estimate and Apportionment for a schedule of the names and compensation of all persons in the employ of this Commission.

On motion of Commissioner SPENCER, the request was referred to the Committee of Finance and Audit.

The Secretary presented communications from the Counsel to the Corporation, dated November 16th and 23d, in relation to claims for damages done by the several Engineer Corps when surveying for the location of the new Aqueduct, and making recommendations in relation thereto.

On motion of the COMMISSIONER OF PUBLIC WORKS, the subject was referred to a Special Committee, to consist of Commissioners Dowd, Spencer and Baldwin.

The public hearing was then, at 3 o'clock, resumed, in pursuance of the following notice:

" AQUEDUCT COMMISSIONERS' OFFICE,
STEWART BUILDING, 280 BROADWAY, ROOM 209,
NEW YORK, November 25, 1885.

PUBLIC NOTICE—FINAL HEARING.

To whom it may concern:

In conformity with the requirements of Section 2, Chapter 490, Laws of 1883, of the State of New York, public notice is hereby given to all persons interested that full opportunity will be afforded them to be heard in relation to the various plans now under consideration by the Aqueduct Commissioners for the location and construction of one or more of the following dams and reservoirs upon the Croton River, in the County of Westchester, viz.:

FIRST.—That known as 'Quaker Bridge Dam' and reservoir, about four miles below the present Croton Dam.

SECOND.—That known as the 'Muscoot Dam' and reservoir, at Muscoot Mountain, about six miles above the present Croton Dam.

THIRD.—A dam and reservoir on the east branch of the Croton River and commonly known as the 'Sodom Dam and Reservoir I.'

All as shown upon the plans, maps and profiles in this office.

The said public hearing having been adjourned on the 12th of April, 1884, until further notice, and resumed at the office of the Aqueduct Commissioners, Room 209, Stewart Building, No. 280 Broadway, in the City of New York, on Wednesday, November 4, and continued on Wednesdays, November 11 and 25, 1885, will be continued at said office on Wednesday, December 2, 1885, at 3 o'clock P. M., and continued on such days thereafter to which said hearing may be adjourned, until finally concluded.

By order of the Aqueduct Commissioners.

JAMES W. McCULLOH,
Secretary."

Among the citizens present were Messrs. O. B. Potter, William H. Webb, James E. Serrell, John C. Peters, M. D., P. A. Cassidy, Jackson S. Schultz, Joseph Benedict and many others.

Addresses were made by Messrs. Potter, Schultz, Webb, Skiff, Beckers and Serrell; all of which were recorded by the stenographer of the Commissioners.

A letter was received from H. K. Thurber, Esq., favoring the building of the Quaker Bridge Dam, which was read and ordered placed upon file.

At 5.30 P. M. the hearing was adjourned until Wednesday next, December 9th, at 3 o'clock P. M.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 209 Stewart Building, Wednesday, December 9, 1885, at 3 o'clock P. M.

Commissioners present:

The Comptroller.
Commissioner of Public Works.
Commissioners SPENCER and BALDWIN.

Also Chief Engineer Church and Consulting Engineer Davis, and Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works.

In the absence of the President and Vice-President, the Commissioners selected Commissioner Spencer as Chairman of the meeting.

On motion of Commissioner BALDWIN, the reading of the minutes of the meeting of the 2d inst. was deferred.

The Committee of Finance and Audit reported the examination and audit of bills included in vouchers Nos. 1265 to 1295; which vouchers, on motion of Commissioner

BALDWIN, were approved by the Commissioners, and ordered certified to the Comptroller for payment.

The Committee on Construction made reports as follows:

1st. December 7, 1885, Submitting a report from the Chief Engineer, stating why it was necessary to postpone the time for opening the bids for Sections 12, 13 and 14 of the new Aqueduct, and recommending that the same be postponed until January 20, 1886.

On motion of the COMMISSIONER OF PUBLIC WORKS, this recommendation was approved by the Commissioners, and it was unanimously

Resolved, That the action of the Commissioners at their last meeting, fixing the date for opening bids for Sections 12, 13 and 14 of the new Aqueduct on January 6, 1886, be and the same is hereby rescinded, and the date of said opening of bids for constructing said sections be and the same is hereby fixed for January 20, 1886, at 2 o'clock P. M., at this office.

2d. Dated December 7, 1885. In relation to a communication from Division Engineer Wegmann of the Seventh Division, submitted to them by Chief Engineer Church, in which request is made that certain persons now employed as laborers in the Engineer Corps of this division be appointed "Helpers," at a monthly rate of compensation, for the purpose of giving their superior officers control of their time beyond hours of day laborers. The Committee were not prepared to recommend the creation of the position of "Helpers;" but to give the said engineer the de-

sired control over the time of his men, the Committee recommended that John McKeon, James J. Chrystal and John P. R. Taaffe be promoted from Laborers to Chainmen, with compensation at the rate of $60 per month.

On motion of Commissioner SPENCER, this recommendation was approved by the Commissioners, and the promotions made, to date from the 1st of January next.

The Commissioners then resumed the public hearing, pursuant to the following notice:

"AQUEDUCT COMMISSIONERS' OFFICE,
STEWART BUILDING, 280 BROADWAY, ROOM 209,
NEW YORK, December 3, 1885.

PUBLIC NOTICE—FINAL HEARING.

To whom it may concern:

In conformity with the requirements of Section 2, Chapter 490, Laws of 1883, of the State of New York, public notice is hereby given to all persons interested that full opportunity will be afforded them to be heard in relation to the various plans now under consideration by the Aqueduct Commissioners for the location and construction of one or more of the following dams and reservoirs upon the Croton River, in the County of Westchester, viz.:

FIRST.—That known as 'Quaker Bridge Dam' and reservoir, about four miles below the present Croton Dam.

SECOND.—That known as the 'Muscoot Dam' and reservoir, at Muscoot Mountain, about six miles above the present Croton Dam.

THIRD.—A dam and reservoir on the east branch of the Croton River and commonly known as the 'Sodom Dam and Reservoir I."

All as shown upon the plans, maps and profiles in this office.

The said public hearing having been adjourned on the 12th of April, 1884, until further notice, and resumed at the office of the Aqueduct Commissioners, Room 209, Stewart Building, No. 280 Broadway, in the City of New York, on Wednesday, November 4, and continued on Wednesdays, November 11 and 25, and December 2, 1885, will be continued on Wednesday, December 9, 1885, at 3 o'clock P. M., and on such days thereafter to which said hearing may be adjourned, until finally concluded.

By order of the Aqueduct Commissioners.

JAMES W. McCULLOH,
Secretary."

Among the citizens present were Messrs. O. B. Potter, William H. Webb, Robert L. Darragh, A. P. Man, Dexter A. Hawkins, James E. Serrell, E. H. James, M. D., A. C. Allen, William W. Bates, John H. Washburn and many others.

Upon announcement from the Chairman that the Commissioners were ready to hear from any one who desired to be heard, addresses were made, and written statements presented by Messrs. Hawkins, James, Bates, Serrell and others, and recorded by the stenographer of the Commissioners.

Upon a request of the Medical Society of the County of New York for time to make further hygienic investigation in relation to the probable result of impounding so large a body of water as would be contained in the proposed Quaker Bridge Dam, and an opportunity to be heard thereon by the Commissioners at some future day, the Commissioners, on motion of the COMPTROLLER, named Wednesday, December 30th next, at 3 o'clock P. M., at this office, to hear the representatives of said Society.

Several persons having announced that they desired to put questions to the engineers of the Commission upon matters relating to the mode of constructing the proposed Quaker Bridge Dam, notice was given by the Commissioners that such questions must be reduced to writing and handed in to the Secretary, when they would be considered by the Commissioners, and the Chief Engineer directed to answer all questions deemed pertinent or necessary for a full understanding of the proposed plans for building said dam.

On motion of the COMPTROLLER, the hearing was then adjourned until Wednesday next, December 16th.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

NOTE.—Under date December 10, 1885, the Counsel to the Corporation gave notice of the appointment on November 21, 1885, by the Supreme Court, of E. Ellery Anderson, Henry F. Spaulding and Robert Murray, as Commissioners

of Appraisal of lands taken for the new Aqueduct between the Harlem River and One Hundred and Thirty-fifth street and Convent avenue, and of the filing of the oath of said Commissioners upon the 4th day of December, 1885; which notice was this day received and placed upon file.

New York, December 12, 1885.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 209 Stewart Building, on Wednesday, December 16, 1885, at 3 o'clock P. M.

Commissioners present:

The Mayor.
The Comptroller.
Commissioner of Public Works.
Commissioners SPENCER, DOWD and BALDWIN.

Also Chief Engineer Church, Consulting Engineer Davis, and Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works.

The meeting was opened for public hearing pursuant to the following notice:

" AQUEDUCT COMMISSIONERS' OFFICE,
STEWART BUILDING, 280 BROADWAY, ROOM 209,
NEW YORK, December 10, 1885.

PUBLIC NOTICE—FINAL HEARING.

To whom it may concern :

In conformity with the requirements of Section 2, Chapter 490, Laws of 1883, of the State of New York, public

notice is hereby given to all persons interested that full opportunity will be afforded them to be heard in relation to the various plans now under consideration by the Aqueduct Commissioners for the location and construction of one or more of the following dams and reservoirs upon the Croton River, in the County of Westchester, viz.:

FIRST.—That known as 'Quaker Bridge Dam' and reservoir, about four miles below the present Croton Dam.

SECOND.—That known as the 'Muscoot Dam' and reservoir, at Muscoot Mountain, about six miles above the present Crotom Dam.

THIRD.—A dam and reservoir on the east branch of the Croton River and commonly known as the 'Sodom Dam and Reservoir I.'

All as shown upon the plans, maps and profiles in this office.

The said public hearing having been adjourned on the 12th of April, 1884, until further notice, and resumed at the office of the Aqueduct Commissioners, Room 209, Stewart Building, No. 280 Broadway, in the City of New York, on Wednesday November 4, and continued on Wednesdays, November 11 and 25, and December 2 and 9, 1885, will be continued on Wednesday, December 16, 1885, at 3 o'clock P. M., and on such days thereafter to which said hearing may be adjourned, until finally concluded.

By order of the Aqueduct Commissioners.

JAMES W. McCULLOH,
Secretary."

Among the citizens present were Messrs. O. B. Potter, William H. Webb, Robert L. Darragh, James E. Serrell, Cornelius O'Reilly and W. W. Bates.

Addresses were made by Messrs. Potter, Bates, Glaskin and others, and written questions submitted by the "Taxpayers and Business Men's Association" of New York, by the "Taxpayers' Association of the Tenth, Eleventh and Seventeenth Wards," by Robert L. Darragh, and by William H. Webb "on behalf of the public."

The addresses were duly recorded by the stenographer, and the written communications read and filed for consideration.

On motion of the MAYOR, the public hearing was then adjourned until Wednesday, December 23d, at 3 o'clock P. M., and the regular order of business taken up.

On motion of Commissioner SPENCER, the reading of the minutes of the meetings of December 2d and 9th was deferred.

The Committee of Finance and Audit reported their examination and certification of the monthly estimates of work done by contractors on the new Aqueduct during the month of November, amounting to the sum of $328,640.48; also their examination and audit of bills included in vouchers Nos. 1308 to 1316.

On motion of Commissioner DOWD, all of the above were approved by the Commissioners, and the vouchers ordered certified to the Comptroller for payment.

The Committee also recommended that the request of

W. W. Proctor, Purveyor, for leave of absence from December 16th to December 30th be granted, with pay, which was approved by the Commissioners, and the leave granted.

The COMMISSIONER OF PUBLIC WORKS offered resolutions in relation to the accidents upon the new Aqueduct, and directing the Chief Engineer to give and enforce orders to carry out the provisions of the contract in relation thereto.

Action thereon was deferred until the next meeting, and the Secretary directed to ask the opinion of the Counsel to the Corporation whether the direction in the last clause, "that the Chief Engineer shall give and enforce orders," does in anywise relieve the contractors from responsibility for accidents and loss of life, and entail such responsibility upon the City.

Commissioner DOWD offered the following resolution:

Whereas, Some erroneous monthly estimates of work done by contractors have heretofore been made by engineers of this Commission, about the responsibility for which errors, their discovery and correction question has been raised; therefore, to determine where such responsibility rests, and to prevent the recurrence of such errors, it is

Resolved, That the Committee of Finance and Audit be and they are hereby requested to make full investigation of all such errors, and to report thereon, for which purpose they are hereby empowered to send for and examine all persons and papers deemed by them necessary, and which are under the control of this Commission.

Which was adopted unanimously.

The Chief Engineer presented a request from Division Engineer Wolbrecht for an investigation as to certain allegations in relation to his estimates of work on Section 6, and recommending that the investigation be made.

On motion of Commissioner SPENCER, the matter was also referred to the Committee of Finance and Audit for investigation and report.

A communication was received from Messrs. O'Brien & Clark, dated December 9, 1885, containing copies of additional rules established by them to still further guard against accidents during the current months of low temperature, which was read and ordered placed upon file.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at their Office, No. 209 Stewart Building, Wednesday, December 23, 1885, at 3 o'clock P. M.

Commissioners present:

The Commissioner of Public Works.
Commissioners SPENCER, DOWD and BALDWIN.

Also Chief Engineer Church and Consulting Engineer Davis, and Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works.

Also Messrs. Potter, Darragh, Serrell, Renwick, and many other citizens.

Vice-President DOWD presided, and opened the meeting for public hearing pursuant to the following notice:

"AQUEDUCT COMMISSIONERS' OFFICE,
STEWART BUILDING, 280 BROADWAY, ROOM 209,
NEW YORK, December 17, 1885.

PUBLIC NOTICE—FINAL HEARING.

To whom it may concern:

In conformity with the requirements of Section 2, Chapter 490, Laws of 1883, of the State of New York,

public notice is hereby given to all persons interested that full opportunity will be afforded them to be heard in relation to the various plans now under consideration by the Aqueduct Commissioners for the location and construction of one or more of the following dams and reservoirs upon the Croton River, in the County of Westchester, viz.:

FIRST.—That known as 'Quaker Bridge Dam' and reservoir, about four miles below the present Croton Dam.

SECOND.—That known as the 'Muscoot Dam' and reservoir, at Muscoot Mountain, about six miles above the present Croton Dam.

THIRD.—A dam and reservoir on the east branch of the Croton River, and commonly known as the 'Sodom Dam and Reservoir I.'

All as shown upon the plans, maps and profiles in this office.

The said public hearing having been adjourned on the 12th of April, 1884, until further notice, and resumed at the office of the Aqueduct Commissioners, Room 209, Stewart Building, No. 280 Broadway, in the City of New York, on Wednesday, November 4th, and continued on Wednesdays, November 11th and 25th and December 2th, 9th and 16th, will be continued on Wednesday, December 23, 1885, at 3 o'clock P. M., and on such days thereafter to which said hearing may be adjourned, until finally concluded.

By order of the Aqueduct Commissioners.

JAMES W. McCULLOH,
Secretary."

In answer to questions and objections heretofore raised as to sufficiency of the plans, specifications and estimates heretofore submitted to public inspection and criticism by the Aqueduct Commissioners, Commissioner DOWD called for the reading of an opinion received from the Counsel to the Corporation, that said plans, specifications and estimates "are in full compliance with the requirements of Section 2, Chapter 490, Laws of 1883; in fact, they seem to be prepared in greater detail than the act itself contemplates." The opinion was read and ordered placed upon file.

Commissioner SPENCER then offered the following resolution:

Resolved, That in the judgment and opinion of the Aqueduct Commissioners, the Sodom Dam and reservoirs, known on the maps as "Reservoirs I and H," should be constructed immediately; and that the public hearings in regard thereto shall be finally closed on the 30th day of December, 1885, and the Committee on Construction are hereby directed to prepare and submit to the Commissioners, for adoption, at their next regular meeting, to be held on Wednesday, December 30, 1885, suitable and formal resolutions, embodying in detail this decision and conclusion.

The resolution was adopted by the affirmative vote of all the Commissioners present.

A communication, of this date, from Professor C. F. Chandler, Columbia College School of Mines, was then read, expressing in decided terms his entire confidence in the sufficiency and purity of the water to be gathered from

the Croton Water Shed, and the advantages of impounding it in a large and deep reservoir such as would be created by building the Quaker Bridge Dam.

On invitation from the Vice-President, the following gentlemen then addressed the Commissioners, viz.: Messrs. Joseph Benedict, Robert L. Darragh, James Renwick and Cornelius O'Reilly; and their statements were fully recorded by the Stenographer of the Commission.

On motion of Commissioner DOWD, the public hearing was then adjourned until Wednesday next, December 30th, at 3 o'clock P. M., and the regular order of business taken up.

On motion of Commissioner BALDWIN, the reading of the minutes of the three previous meetings was deferred.

The Committee of Finance and Audit reported the examination and audit of bills included in vouchers Nos. 1317 to 1336, which vouchers, on motion of Commissioner BALDWIN, were approved by the Commissioners and ordered certified to the Comptroller for payment.

The Committee next presented a communication from Division Engineer Craven to the Chief Engineer, in relation to the pay of Inspectors during absence from sickness caused by or incident to their work.

On motion of the COMMISSIONER OF PUBLIC WORKS, the matter was laid over, and the Secretary directed to confer with the Counsel to the Corporation upon the legality of such payment to persons employed and paid by the day.

The Committee on Construction presented a report,

dated December 21st, in relation to fixing the southern terminus of the new Aqueduct, which matter was discussed, and, pending the receipt of an opinion asked by the Commissioner of Public Works from the Counsel to the Corporation upon matters germane to this subject, the report was laid over.

The Committee next presented report, of this date, in relation to lining the new Aqueduct, and the extent to which it should be done, which was laid over for further consideration.

On behalf of the same Committee, Commissioner SPENCER offered the following resolution:

In view of the fact that the tunnel excavations along the line of the Aqueduct, especially from Gould's swamp southward, are developing in many places treacherous rock requiring timbering, the Committee recommend that two expert men be selected from amongst the Inspectors, whose especial duty shall be to visit all places requiring timbering, and to report at once to the Division Engineer in charge of the work, and also to the Chief Engineer any defective timbering, or any point requiring timbering, or which has not been otherwise properly secured.

The resolution was adopted, and the Chief Engineer directed to select from the Inspectors those he deems best qualified for the duty, and to report the same to the Committee on Construction for approval.

The following communication from the Comptroller was read and ordered placed upon these minutes:

"CITY OF NEW YORK—FINANCE DEPARTMENT,
COMPTROLLER'S OFFICE, December 10, 1885.

JAMES W. MCCULLOH, Esq.,
Secretary, Aqueduct Commission:

Sir,—Under a resolution adopted November 18, 1885, to raise the sum of $2,000,000 upon bonds of the City of New York in conformity with the requirements of Section 32, Chapter 490, Laws of 1883, for the uses and purposes of said Commissioners, as set forth in said statute, proposals were opened for that amount of Additional Water Stock of the City of New York, December 3, 1885, bearing interest at the rate of three per cent. per annum. The whole amount was awarded to the highest bidders, at a premium amounting to $53,880, making the total proceeds of the bonds $2,053,880, which sum has been paid into the City Treasury to the credit of the 'Additional Water Fund,' and is subject to the requisition of the Aqueduct Commissioners for the purposes mentioned in said resolution.

A copy of the advertisement for proposals for the bonds is inclosed.

Respectfully,
(Signed) EDWARD V. LOEW,
Comptroller."

Under date of December 19th, the Comptroller gave notice of the issue of warrants for vouchers not certified by the Aqueduct Commissioners, and appertaining to the work of the Commissioners of Appraisal for New York County $50, and Westchester County $856.63; which was ordered placed on file, and entered upon the books of this Commission.

A communication was received from the Counsel to the Corporation, giving notice of the appointment by the Court of Messrs. E. Ellery Anderson, Henry F. Spaulding and Robert Murray as Commissioners of Appraisal for lands and easements taken for the new Croton Aqueduct between the east side of the Harlem River to One Hundred and Thirty-fifth street and Convent avenue in the City of New York, and the taking of their oath of office on December 2, 1885, and the filing of said oaths in the office of the Clerk of Westchester County on December 4th, and certified copies thereof filed in the office of the Register of the County of New York on December 5, 1885.

The notice was read and ordered placed upon file.

The Commissioners then adjourned.

JAMES W. McCULLOH,
Secretary.

MINUTES OF STATED MEETING

OF THE

AQUEDUCT COMMISSIONERS,

Held at the Office of the Commissioners, No. 209 Stewart Building, on Wednesday, December 30, 1885, at 3 o'clock P. M.

Commissioners present:

Commissioner of Public Works.
Commissioners SPENCER and BALDWIN.

Also Chief Engineer Church, Consulting Engineer Davis and Chief Engineer Birdsall and Consulting Engineer Adams of the Department of Public Works, and many citizens.

In the absence of the President and Vice-President, Commissioner SPENCER was selected as Chairman, and their being no quorum present for the transaction of the regular business, the Commissioners proceeded at once to public hearing, pursuant to the following notice:

"AQUEDUCT COMMISSIONERS' OFFICE,
STEWART BUILDING, 280 BROADWAY, ROOM 209,
NEW YORK, December 24, 1885.

PUBLIC NOTICE—FINAL HEARING.

To whom it may concern:

In conformity with the requirements of Section 2, Chapter 490, Laws of 1883, of the State of New York, public notice is hereby given to all persons interested that full opportunity will be afforded them to be heard in relation to the various plans now under consideration by the Aqueduct Commissioners for the location and construction of one or more of the following dams and reservoirs upon the Croton River, in the County of Westchester, viz.:

FIRST.—That known as 'Quaker Bridge Dam' and reservoir, about four miles below the present Croton Dam.

SECOND.—That known as the 'Muscoot Dam' and reservoir, at Muscoot Mountain, about six miles above the present Croton Dam.

THIRD.—A dam and reservoir on the east branch of the Croton River, and commonly known as the 'Sodom Dam and Reservoir I.'

All as shown upon the plans, maps and profiles in this office.

The said public hearing having been adjourned on the 12th of April, 1884, until further notice, and resumed at the office of the Aqueduct Commissioners, Room 209, Stewart Building, No. 280 Broadway, in the City of New

York, on Wednesday, November 4th, and continued on Wednesdays, November 11th and 25th, and December 2d, 9th, 16th and 23d, will be continued on Wednesday, December 30, 1885, at 3 o'clock P. M., on which day the hearing with regard to the Sodom Dam and reservoirs will be finally closed; and the hearing in relation to the other proposed dams continued upon such days thereafter to which the same may be adjourned, until finally concluded.

By order of the Aqueduct Commissioners.

JAMES W. McCULLOH,
Secretary."

Among those persons present were Messrs. W. H. Arnoux, O. B. Potter, Joseph Benedict, Dexter A. Hawkins, A. M. Ross and others.

The Commissioners were addressed by Messrs. Arnoux, Benedict, Glaskin, Ross, Potter and others, and their remarks recorded by the official stenographer of the Commissioners.

The hearing was then adjourned until Wednesday, January 6, 1886, at 3 o'clock P. M.

The Commissioners then adjourned subject to special call for Monday, January 4, 1886, at 3 o'clock P. M.

JAMES W. McCULLOH,
Secretary.

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